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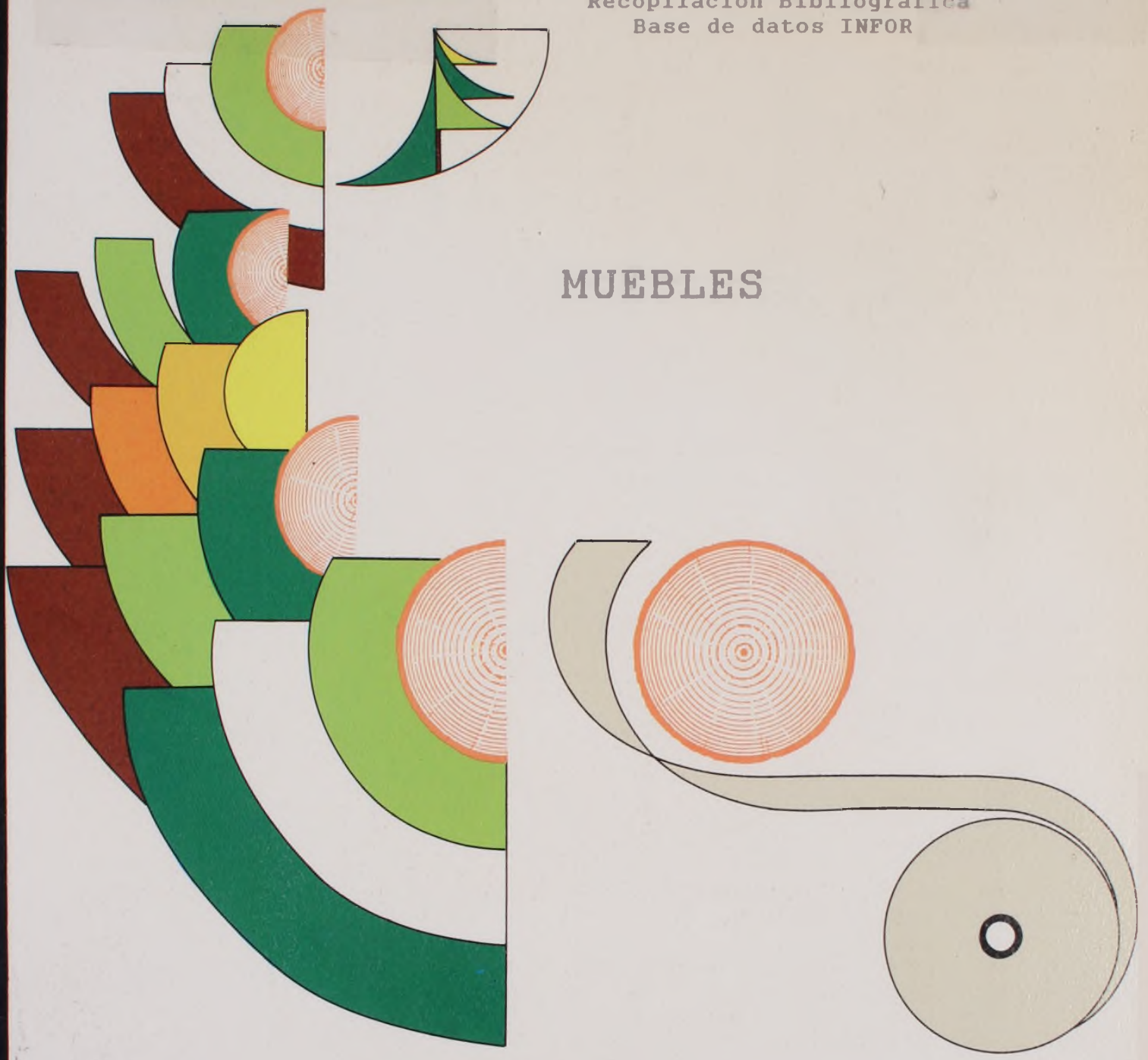
Recopilación Bibliográfica
Base de datos INFOR

MUEBLES



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CORPORACION
DE FOMENTO
DE LA PRODUCCION

División Industrias
Julio, 1993

BIBLIOGRAFIA

MUEBLES

Para muchas industrias que utilizando madera y sus derivados producen puertas y ventanas, muebles, juguetes, etc. la presentación superficial que puedan impartirles es decisiva en el éxito o fracaso de su gestión de ventas. Se trata, en realidad cada día más, de un factor que implica aspectos de costos, calidad - estético, tacto, resistencia, duración - e inocuidad significativos en la globalización de la competencia comercial nacional e internacional. De ahí que la División Industrias del Instituto Forestal, por encargo de la Gerencia de Desarrollo Tecnológico de la Corporación de Fomento, está realizando el proyecto **"Tratamientos de Terminaciones para Madera"** con el objeto de contribuir al progreso del país en esta materia.

La evidente conveniencia de diseminar los logros de investigaciones llevados a cabo en todo el mundo en los últimos años llevó a editar y poner a disposición de los interesados la recopilación bibliográfica **"PINTURAS, LACAS Y BARNICES"** (en inglés) con más de 650 citas extractadas. Como complemento se presentan hoy 788 resumenes de publicaciones aparecidas entre 1946 y 1991 sobre **"MUEBLES"** .

El campo de esta selección es amplio. Se basa en la búsqueda con el "descriptor" (palabra clave) FURNITURE en la base de datos disponible en el Instituto Forestal y, como la anterior, está en idioma inglés. Incluye a aquellas publicaciones -libros, artículos, folletos, etc.- referidos a muebles, la madera para ellos, su fabricación y terminación, resistencia mecánica, conservación, etc. Debe resultar entonces útil a quienes operan en la industria de la mueblería.

Cada referencia lleva todas o algunas de las siguientes claves :

TI	:	Título en Inglés.
OT	:	Título Original.
AU	:	Autor (es).
AD	:	Dirección del (de los) autor (es).
SU*O*	:	Fuente de la Referencia.
PY	:	Año de Publicación.
LA	:	Idioma Original.
LS	:	Idioma (s) de (de los) Resumen (es) si los había
AB	:	Resumen.
DE	:	Descriptores de la Publicación.
GE	:	País de Orígen.
PT	:	Código de la Base de Datos.
CAB	:	Código del Forestry Abstracts.
UD	:	Código Interno.
AN	:	Código Interno.
DC	:	Código Interno.
SM	:	Código Interno.

En muchos casos será de interés obtener copia al texto completo de ciertas referencias. Aunque por razones de idioma o contacto efectivo ello puede resultar a veces imposible, se puede acceder a una cantidad importante a través de :

- Biblioteca del Instituto Forestal;
- Bibliotecas Universitarias y de CONICYT;
- Cartas directas a los Autores (clave AU).

Serán bienvenidas las sugerencias que constribuyan a hacer posible la asimilación y puesta en práctica de avances tecnológicos en materia de producción y conservación de muebles, y en particular a sus tratamientos de terminación.

Santiago, Julio de 1993

DIVISION INDUSTRIAS
INSTITUTO FORESTAL

1 of 788
TI: Economic problems connected with the development of plantations of high quality broadleaf species.
OT: Problematiche economiche connesse allo sviluppo delle piantagioni di latifoglie di pregio.
AU: Pettenella,-D; Cutolo,-N
AD: Centro di Sperimentazione Agricole e Forestale, ENCC-SAF, Rome, Italy.
SO: Cellulosa-e-Carta. 1990., 41: 2, 11-23; 26 ref.
PY: 1990
LA: Italian
LS: English, French, German
AB: Economic aspects, possible sources of financial aid and market conditions are discussed, in relation to the establishment of plantations of walnut (Juglans regia, J. nigra), cherry [Prunus sp.], maple [Acer sp.] and ash (Fraxinus excelsior) in Italy. Italy imports more timber of broadleaf species than any other European country, much of it for the furniture and allied industrial sector (e.g. veneer production). Tables illustrate costs, expected cash flows and stumpage revenues for a J. regia plantation, with rotations of 30, 40, 50 or 60 years and discount rates of 3, 5, 7.5 or 10%. It is suggested that this type of timber production would be suitable for small farms with some capital and/or resources, large farms with underutilized or 'set aside' agricultural land, or forestry farms which could diversify.
DE: Broadleaves-; Forest-economics; Italy-; private-forestry; silviculture-; Juglans-regia; plantations-; Furniture-; raw-materials; Forest-products-industries
GE: Italy-
PT: Numbered-Part
CAB: 0F Forestry-Abstracts 1992 053-01678; 1F Forest-Products-Abstracts 1992 015-00906
UD: 9211
AN: F561667
DC: 0F03720; 1F0214; 0F047; 1F0661; 1F10
SM: P

2 of 788
TI: Furniture timbers of New South Wales.
AD: Wood Technology & Forest Research Division, Forestry Commission of New South Wales, NSW 2119, Australia.
SO: Technical-Publication---Forestry-Commission-of-New-South-Wales. 1988., No. 1, 4 pp.
PY: 1988
LA: English
AB: Timbers suitable for furniture and turnery are tabulated by colour grouping with their trade and botanical name and information on their ease of working, seasoned weight (kg/m3), Lyctus borer susceptibility of sapwood, and district of growth. Miscellaneous notes are also included where appropriate.
DE: Australia-; New-South-Wales; timbers-; furniture-; turnery-;

raw-materials
GE: Australia-; New-South-Wales
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1992 015-01182
UD: 9211
AN: F561888
DC: 1F066
SM: BN/Australia

3 of 788
TI: The upholstered, wood household furniture industry in North America: a spatial equilibrium analysis.
AU: Todd,-EJ; Bullard,-SH
AD: Department of Forestry, Mississippi State University, MS 39762, USA.
S 0 :
Research-Report---Mississippi-Forest-Products-Utilization-Laboratory. 1991., No. 17, v + 15 pp.; 45 ref.
PY: 1991
LA: English
DE: Furniture-; Industry-; North-America
GE: North-America
PT: Numbered-Whole
UD: 9211
AN: F562876
SM: See ACS

4 of 788
TI: Upholstered household furniture in the United States: a survey of current ownership and purchasing plans.
AU: Bullard,-SH; Doolittle,-L
AD: Department of Forestry, Mississippi State University, MS 39762, USA.
S 0 :
Research-Report---Mississippi-Forest-Products-Utilization-Laboratory. 1991., No. 17, 41 pp.
PY: 1991
LA: English
DE: USA-; Furniture-; Industry-
GE: USA-
PT: Numbered-Whole
UD: 9211
AN: F562884
SM: See ACS

5 of 788
TI: Testing glueline continuity in standard-size hardwood blanks by mechanical methods.
AU: Patterson,-DW; Hesterman,-ND; Gatchell,-CJ
AD: Division of Forestry, West Virginia University, Morgantown, WV 26506-6125, USA.

SO: Wood-and-Fiber-Science. 1991., 23: 2, 173-184; 33 ref.
PY: 1991
LA: English
AB: Black cherry (Prunus serotina), red oak (Quercus rubra), and yellow poplar (Liriodendron tulipifera) standard-size blanks 24 inches wide and 0.75 inches thick were manufactured. Some blanks were crosscut into strips two inches along the grain, the other blanks were cut 24 inches long. Foil defect strips were placed in the middle glueline of some panels to create a gap, thus achieving a range of effective gluelines of 60, 75, 90, and 100%. Static bending perpendicular to the grain, tension perpendicular to the grain, and torsion tests were developed for testing these specimens. Five parameters - modulus of rupture and modulus of elasticity in bending, tensile strength, torsional shear strength, and modulus of rigidity - were measured to determine their sensitivity for detecting defective gluelines. Tensile strength perpendicular to the grain was the most satisfactory parameter for detecting defective gluelines. Its combination of high sensitivity and low variability would result in the smallest amount of destruction of good panels, while failing a larger number of defective panels. It was found that mechanical methods are not appropriate for determining glueline continuity since none of the parameters studied is sufficiently sensitive to detect defects of 10% or less.
DE: Panels-; strength-; joints-timber; testing-; Prunus-serotina; Quercus-rubra; Liriodendron-tulipifera; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-01195
UD: 9211
AN: F569277
DC: 1F072; 1F0661
SM: P

6 of 788
TI: United States consumers' views on ready-to-assemble furniture.
AU: Stureson,-FN; Sinclair,-SA
AD: MicroWood Inc., 1020 Mainsville Road, Shippensburg, PA 17257, USA.
SO: Wood-and-Fiber-Science. 1991., 23: 2, 207-219; 45 ref.
PY: 1991
LA: English
AB: A nationwide survey of 1500 households was undertaken to compare the attitudes and buying behaviour of older and younger consumers to ready-to-assemble (RTA, formerly known as knock-down) furniture. Older consumers as a group were found to be more negatively disposed toward RTA furniture. They were more inclined to view price as an indicator of quality and were much less inclined to assemble their own furniture to save money. The older consumers were not a homogeneous group; to appeal to them, good quality and convenience are important.
DE: Furniture-; industry-; USA-; Marketing-
GE: USA-
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1992 015-01183
UD: 9211
AN: F569307
DC: 1F0661; 1F10
SM: P

7 of 788
TI: Strength of furniture joints constructed with through-bolts and dowel-nuts.
AU: Eckelman,-CA
AD: Department of Forestry, Purdue University, West Lafayette, IN 47906, USA.
SO: Forest-Products-Journal. 1989., 39: 11-12, 41-48; 7 ref.
PY: 1989
LA: English
AB: Tests were carried out to determine the bending strength and stiffness of dowel-nuts (or barrel-nuts) with through-bolt joints constructed of five wood species, viz. white ash [Fraxinus americana]; soft maple [Acer rubrum]; sugar maple [Acer saccharum]; red oak [Quercus rubra]; and yellow-poplar [Liriodendron tulipifera]. Tests were also carried out to determine the end withdrawal strength of dowel-nuts (d-nuts) embedded crossways through the face of five solid wood species and in medium density fibreboard. Results indicate that through-bolts with d-nuts form high-strength joints; they are more flexible than adhesive joints, however. The spacing of d-nuts from the edge of a rail had little effect on strength; it was also found that d-nuts placed as close as 1-inch from the end of rails resulted in little loss in ultimate strength. D-nuts embedded in the edge of a rail produced higher strengths than d-nuts embedded in the face. An equation was developed to express the bending strength of joints formed with 3/8-inch diameter d-nuts embedded in the face of a rail.
DE: Broadleaves-; Furniture-; Joints-timber; bolted-joints; testing-; Fraxinus-americana; Acer-rubrum; Acer-saccharum; Quercus-rubra; Liriodendron-tulipifera
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-01095
UD: 9211
AN: F569897
DC: 1F0433; 1F0323; 1F0661
SM: P

8 of 788
TI: External supervision and material monitoring as regards formaldehyde emission from furniture and wood-based panels.
OT: Fremduberwachung und Materialkontrolle bei der Formaldehydabgabe von Mobeln und Holzwerkstoffen.
AU: Boehme,-C
AD: Wilhelm-Klauditz-Institut, Braunschweig, Germany.
SO: WKI-Mitteilung. 1990., No. 508, 6 pp.; 22 ref. Reprinted from HK Holz- und Mobelindustrie (1990) No. 5, 541-543.
PY: 1990

LA: German
LS: English, Italian
AB: The West German regulation on hazardous substances (1986) lays down certain maximum values for formaldehyde emission, but does not prescribe any monitoring of wood products in this regard. It is therefore in the interest of manufacturers to prove that their products meet the requirements for formaldehyde emission, by means of regular in-house monitoring combined with external supervision by a test institute. Methods currently used to monitor formaldehyde emission from particleboards, plywood, fibreboards etc. are reviewed, and in-house controls are discussed. The existing European guideline for emission from furniture requires a 40 m3 test-chamber, and it is necessary to develop more appropriate test methods.
DE: Formaldehyde-; panels-; methodology-; Germany-; properties-; Particleboards-; Plywood-; Fibreboards-; Furniture-; raw-materials; testing-; Quality-controls
GE: Germany-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1992 015-00956
UD: 9211
AN: F571522
DC: 1F028; 1F070; 1F0661
SM: BN/Germany/WKI

9 of 788
TI: The thickness swelling of particleboards for furniture, from the standpoint of European standardization.
OT: Die Dickenquellung von Mobelspanplatten im Blickpunkt der europaischen Normung.
AU: Boehme,-C
AD: Wilhelm-Klauditz-Institut, W-3300 Braunschweig, Germany.
SO: Holz-als-Roh--und-Werkstoff. 1991., 49: 6, 239-241; 5 ref.
PY: 1991
LA: German
LS: English
AB: The new European Standard will specify test-pieces 50 X 50 mm, instead of the various sizes now used in the different national Standards. Experiments were made on test-pieces 25 X 25 and 50 X 50 mm. The results indicate that, for determining short-term swelling, the new test-pieces should be kept vertical in cold water for 4 hours, and the old limit value should be reduced from 8% to 6%. [With English captions.]
DE: Standards-; European-Communities; particleboards-; moisture-; testing-; Furniture-; raw-materials
GE: European-Communities
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-00870
UD: 9211
AN: F571603
DC: 1F0115; 1F0125; 1F073; 1F0661
SM: P

10 of 788
TI: The extraction of rattan-like lianas in the New World tropics: a possible prototype for sustainable forest management.
AU: Whitehead,-BW; Godoy,-R
AD: McKinsey Company, Cleveland, OH 44122, USA.
SO: Agroforestry-Systems. 1991., 16: 3, 247-255; 1 ref.
PY: 1991
LA: English
AB: The principal challenges to forest management in Latin America are discussed, along with the role that sustainably harvested lianas (as 'non-timber' forest products) could play in increasing rural incomes, slowing deforestation, and providing downstream industrial benefits. A list is included of Brazilian lianas (Gnetum, monocotyledons and dicotyledons) with known or potential application in the furniture industry.
DE: Deforestation-; Latin-America; Brazil-; climbers-; rural-economy; Forest-management; sustainability-; Economics-; furniture-; raw-materials
GE: Latin-America
PT: Numbered-Part
CAB: 7Y Agroforestry-Abstracts 1992 005-00466; 0F Forestry-Abstracts 1992 053-03852; 1F Forest-Products-Abstracts 1992 015-01739
UD: 9211
AN: F576508
DC: 0F0399; 1F0934; 0F1513; 0F044; 0F0784; 0F0397; 1F0661; 1F10
SM: P

11 of 788
TI: Hevea.
OT: L'hevea.
AD: Centre Technique Forestier Tropical, 94736 Nogent-sur-Marne Cedex, France.
SO: Bois-et-Forets-des-Tropiques. 1990., No. 223, 57-68.
PY: 1990
LA: French
AB: A technical note briefly summarizing the properties of rubber (Hevea brasiliensis) as a timber tree, and describing its wood properties. Sections cover wood structure, wood properties (physical and mechanical), wood chemistry and calorific value, durability, wood preservation, sawmilling, drying, working and finishing properties, pulping characteristics, and utilization for furniture and interior furnishings (and locally as fuelwood, for charcoal production and construction timber).
DE: Wood-properties; Hevea-brasiliensis; Wood-anatomy; Wood-chemistry; Wood-preservation; durability-; working-properties; finishes-; wood-utilization; Pulping-; Hevea-; Sawmilling-; Drying-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-01398
UD: 9211
AN: F577890

DC: 1F030; 1F060; 1F0661
SM: P

12 of 788
TI: Identification of exotic timbers used in cabinetmaking in past times.
OT: Les bois exotiques anciens d'ebenisterie et leur identification.
AU: Detienne,-P
AD: Centre Technique Forestier Tropical, 94736 Nogent-sur-Marne Cedex, France.
SO: Bois-et-Forets-des-Tropiques. 1990., No. 223, 69-76.
PY: 1990
LA: French
AB: Brief notes are given on macroscopic and microscopic identification of woods used in cabinetmaking and marquetry. Details are tabulated on over 36 of the principal species used in the past, giving botanical and common names, country of origin, and details of some wood anatomical characteristics, and of grain and colour (fresh and seasoned) characteristics. It is noted that many common names are ambiguous, or misleading, particularly in translation; examples of this are given, such as Peltogyne spp., known in French Guiana as 'amarante', 'bois d'amarante' or 'bois violet', whereas 'violetwood' is an English name for 'bois de violette', Dalbergia cearensis from NE Brazil.
DE: Furniture-; raw-materials; history-; Tropical-timbers; Marquetry-; Old-and-fossil-wood; Nomenclature-; Wood-anatomy; identification-
GE: Tropics-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-01558
UD: 9211
AN: F577903
DC: 1F061; 1F0661; 1F030
SM: P

13 of 788
TI: Wood supply: an important aspect of the furniture industry. The role of national [wood] production.
OT: L'approvvigionamento del legno: una variabile strategica per l'industria del mobile. Il ruolo della produzione nazionale.
AU: Castelli,-L
AD: Federlegno-Arredo, Rome, Italy.
SO: Italia-Forestale-e-Montana. 1990., 45: 2, 98-113.
PY: 1990
LA: Italian
LS: English
AB: The importance of the forest products sector to the Italian economy is stressed, particularly the furniture industry. Despite raw material imports of about 80% of total supply, the commercial balance was L 5006 billion (109) in 1988. However, changing economic conditions will increase the pressure for reducing

dependence on imported raw materials (e.g. higher costs/reduced supply of tropical hardwoods, development of wood processing industries in Asia and the Americas, the relaxing of trade barriers within the EC from 1993). Within Italy, more intensive use of existing forests and coppice stands, extension of tree plantations and an increase in the planting of valuable timber species are recommended.
DE: Furniture-; industry-; Forest-products-industries; supply-balance; Italy-; economics-
GE: Italy-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-01761
UD: 9211
AN: F579302
DC: 1F10; 1F066; 1F0214
SM: P

14 of 788
TI: New approaches in planning optimum breakdown of panel products for furniture parts.
AU: Pizhurin,-AA; Sivak,-Ya.P
AD: MLTI, Moscow, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1990., No. 6, 21-23.
PY: 1990
LA: Russian
AB: A mathematical analysis is made of the breakdown of sheet materials to secure optimum yield of furniture parts, and a model is developed for optimizing breakdown.
DE: Furniture-; raw-materials; simulation-; Panels-; processing-; uses-
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-01573
UD: 9211
AN: F585469
DC: 1F0661; 1F0126; 1F070
SM: BLDSC

15 of 788
TI: Bent-and-glued furniture made of eucalypt veneer.
AU: Kostrikov,-PV
AD: Politekhnicheskii Institut, Kishinev, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1990., No. 9, 27.
PY: 1990
LA: Russian
AB: A brief account is given of experience in Cuba in producing bent-and-glued articles such as stools and rocking-chairs out of eucalypt [Eucalyptus] veneers 1-1.5 mm thick (produced from trees 25 years old having a mean d.b.h. of 30-35 cm). The veneers are used at 4-6% m.c. Bends of radius approximately 25 mm can be made, with an angle of bending of 90 ° .
DE: Cuba-; furniture-; raw-materials; Eucalyptus-; veneers-

GE: Cuba-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-02029
UD: 9211
AN: F586538
DC: 1F0661; 1F071
SM: BLDSC

16 of 788
TI: Skin changes in workers engaged in plywood manufacture.
AU: Bannikov,-EA; Anton'ev,-AA; Kondinskaya,-VE; Matusevich,-SL; Dyundyukova,-VP
AD: Meditsinskii Institut, Tyumen, USSR.
SO: Vestnik-Dermatologii-i-Venerologii. 1990., No. 2, 53-54; 5 ref.
PY: 1990
LA: Russian
LS: English
AB: Medical examination of 100 workers at a plywood and furniture factory in Tyumen (W. Siberia) revealed increased sensitivity to occupational allergens in 45% of the workers, allergic dermatitis and eczema in 8%, and mycoses of the soles of the feet in 12%. Of workers having clinical symptoms of mycoses of the feet, 70% had latent sensitivity to occupational allergens. Pre-morbid modifications in the skin of the upper extremities were observed in 30% of the workers.
DE: Plywood-; industry-; Furniture-; Labour-; forest-products-industries; Health-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-01840
UD: 9211
AN: F589715
DC: 1F027; 1F072; 1F066
SM: Repr./3602

17 of 788
TI: Ready-to-assemble furniture: marketing and material use trends.
AU: Sinclair,-SA; Trinka,-MW; Luppold,-WG
AD: Brooks Forest Products Center, VPI&SU, Blacksburg, VA 24061-0503, USA.
SO: Forest-Products-Journal. 1990., 40: 3, 35-40; 12 ref.
PY: 1990
LA: English
AB: An exploratory study was undertaken in late 1988 of 60 ready-to-assemble (RTA) furniture producers in the US. Their prediction was that industrial particleboard, wood veneer, hardwood lumber, medium density fibreboard and high density laminates would be the fastest growing materials used in RTA furniture in 1989 and 1990.
DE: Furniture-; raw-materials; industry-; USA-; Marketing-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-02030

UD: 9211
AN: F592899
DC: 1F0661; 1F0217; 1F10
SM: P

18 of 788
TI: Computer-controlled production systems for the wood industry.
OT: Rechnergefuhrte Produktionssysteme fur die Holzindustrie.
AU: Prekwinkel,-F
AD: Institut fur Werkzeugmaschinen, TU Braunschweig, Germany.
SO: Holz-als-Roh--und-Werkstoff. 1991., 49: 12, 457-464; 5 ref.
PY: 1991
LA: German
LS: English
AB: An overview (with special reference to the use of wood-based materials in furniture manufacture) of the scope for improving productivity, flexibility and quality by the use of systems of computer-aided design (CAD), planning (CAP), quality assurance (CAQ), and manufacturing requirements planning (MRP). Integration of these systems to create fully computer-controlled production systems is discussed. [With English captions.]
DE: Panels-; computer-techniques; Furniture-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-02245
UD: 9211
AN: F596185
DC: 1F0129; 1F070; 1F0661
SM: P

19 of 788
TI: Wood material use in the U.S. wood furniture industry.
AU: Meyer,-CJ; Michael,-JH; Sinclair,-SA; Luppold,-WG
AD: Dept. Wood Sci. & Forest Prod., Virginia Tech., Blacksburg, VA 24061, USA.
SO: Forest-Products-Journal. 1992., 42: 5, 28-30; 9 ref.
PY: 1992
LA: English
AB: A postal survey was undertaken of 5016 furniture manufacturing enterprises making household and office wooden furniture and upholstered furniture. The enterprises were grouped into 5 geographic regions: South (containing 41% of the respondents), Midwest (19%), Northeast (17.3%), West Coast (16.6%) and West (6.2%). The total amount of hardwood used in 1989 was estimated at over 2.3 billion board feet (BBF). Softwood lumber consumption was estimated at 865 million board feet (MMBF). Over 1.3 billion square feet of particleboard (3/4-inch basis) was consumed. The South was the largest consumer of most materials (1747 MMBF of hardwood lumber, 362.6 MMBF of softwood lumber, 660.8 million square feet of particleboard). Red oak [Quercus spp.] was the most commonly used hardwood species, representing almost 27% of the hardwood lumber consumed. Yellow poplar [Liriodendron tulipifera] and white oak [Quercus spp.] accounted for 15% and 11%, respectively, of the

hardwood lumber consumed.
DE: Furniture-; industry-; raw-materials; USA-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-02505
UD: 9211
AN: F597947
DC: 1F0661; 1F0217
SM: P

20 of 788
TI: Furniture and its formaldehyde emission.
OT: Mobel und ihre Formaldehydabgabe.
AU: Meyer,-B; Flentge,-A; Marutzky,-R
AD: Wilhelm-Klaudtiz-Institut, Braunschweig, Germany.
SO: WKI-Mitteilung. 1991., No. 529, 5 pp.; 16 ref. Reprinted from Holz- und Mobelindustrie (1991) No. 12, 1472-1476.
PY: 1991
LA: German
LS: English, French, Italian
AB: A discussion of the new (1988) official German requirements that furniture must not contain wood-based materials which exceed a formaldehyde concentration of 0.1 ml/m3 of air in a test chamber. Tests were made in a 40-m3 test chamber, and the results (e.g. on particleboard carcasses coated with impregnated paper overlays, or with oak veneer) indicated that large chambers provide a realistic and non-destructive method of testing whole pieces of furniture and components.
DE: Formaldehyde-; panels-; methodology-; Furniture-; raw-materials; testing-; properties-; Overlays-; Germany-; legislation-
GE: Germany-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1992 015-02299
UD: 9211
AN: F599370
DC: 1F028; 1F0215; 1F0661; 1F070; 1F022
SM: P

21 of 788
TI: Application of sensor systems in machines.
OT: Maschinennaher Einsatz von Sensorsystemen.
AU: Fuchs,-I
AD: Wissenschaftlich-Technisches Zentrum der holzverarbeitenden Industrie GmbH, O-8020 Dresden, Germany.
SO: Holz-als-Roh--und-Werkstoff. 1992., 50: 1, 2-4; 7 ref.
PY: 1992
LA: German
LS: English
AB: The principles and design are described of a system which determines the jaggedness of the edges of coated furniture elements (e.g. overlay-coated particleboard). The instrument used operates

without contact, by means of a special illumination principle, with data processing by a CCD line-scanning camera. [With English captions.]
DE: Particleboards-; overlays-; equipment-; computer-techniques; Data-processing; Furniture-; raw-materials; Quality-controls
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-02247
UD: 9211
AN: F603653
DC: 1F0129; 1F073
SM: P

22 of 788
TI: SELECT: a model for minimizing blank costs in hardwood furniture manufacturing.
AU: Carino,-HF; Foronda,-SU
AD: School Forestry, Auburn Univ., Alabama Agri. Expt. Sta., Auburn, AL 36849, USA.
SO: Forest-Products-Journal. 1990., 40: 5, 21-26; 19 ref.
PY: 1990
LA: English
AB: A description is given of the model, which can be used to evaluate lumber requirements under any hardwood grading system. It is sensitive to lumber grades, species and sizes. The model is illustrated using data from a kitchen cabinet manufacturing operation in Alabama.
DE: Simulation-; furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-02249
UD: 9211
AN: F606385
DC: 1F0129; 1F0661
SM: P

23 of 788
TI: Noise reduction on a line calibrating and sanding furniture panels.
AU: Andrianov,-Yu.V
AD: Kostromskoe SKBD-1, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1991., No. 7, 20-21.
PY: 1991
LA: Russian
AB: Describes measurements of the noise levels on the line in a Soviet furniture factory, and gives details of a series of practical measures to reduce noise. These include fitting flexible rubber flaps or baffles, and increasing insulation and damping with porous rubber sheeting. Total noise level was reduced by 8 dBA; noise was reduced by 2-8 dB in the frequency range 250-1000 c/s, and by 8-19 dB in the range 2000-8000 c/s.
DE: Forest-products-industries; ergonomics-; Noise-; Furniture-; industry-; USSR-
GE: USSR-

PT: Numbered-Part
UD: 9211
AN: F621570
DC: 1F027; 1F0661
SM: BLDSC

24 of 788
TI: Laminated furniture frame with optimized strength.
AU: Korzeniowski,-AM
AD: Department of Construction and Technology of Final Wood Products, Warsaw Agricultural University - SGGW-AR, 02-528 Warsaw, Poland.
S O :
Annals-of-Warsaw-Agricultural-University-SGGW-AR,-Forestry-and-Wood-Technology. 1987., No. 35, 61-66; 6 ref.
PY: 1987
LA: English
LS: Polish
AB: An abridged version of a conference paper noticed earlier under the title: Glulam furniture frame.
DE: Laminated-wood; joints-timber; uses-; glued-joints; testing-; Furniture-; manufacture-
PT: Numbered-Part
IS: 83-00-02124-8
CAB: 1F Forest-Products-Abstracts 1991 014-00711
UD: 9211
AN: F467210
DC: 1F072; 1F0661
SM: BN/Poland

25 of 788
TI: Gluing of plywood mouldings using the polyvinyl acetate glue Wikol.
OT: Klejenie ksztaltek sklejkowych klejem polioctanowinylowym Wikol.
AU: Gos,-B; Kluska,-J
AD: Katedra Fizyko-Chemicznych Podstaw Technologii Drewna, SGGW-AR, Warsaw, Poland.
SO: Przemysl-Drzewny. 1987., 38: 12, 12-14; 5 ref.
PY: 1987
LA: Polish
LS: Russian, English
AB: Plywood mouldings 3, 5 and 15 mm thick were glued from beech [Fagus sylvatica] veneers at 50, 80 and 100 ° C with a pressing force of 2.5 MPa for 4, 6 or 20 minutes respectively using Wikol and modified Wikol (using the modifier Wik-10). Modified Wikol produced mouldings of superior quality and strength with resistance to cold water and well suited to use in furniture manufacture.
DE: Plywood-; raw-materials; Fagus-; strength-; adhesives-; Fagus-sylvatica; Furniture-
GE: Poland-
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1991 014-00715
UD: 9211
AN: F469787
DC: 1F072; 1F0661; 1F079
SM: BLDSC

26 of 788
TI: Optimizing the cutting of material to size in the furniture industry.
OT: Optimierung des Materialzuschnitts in der Mobelindustrie.
AU: Lis,-W
AD: Agricultural Academy, Poznan, Poland.
SO: Holztechnologie. 1989., 30: 6, 299-301, 336; 5 ref.
PY: 1989
LA: German
LS: English, Russian
AB: A discussion of the principles for optimizing the cutting of panel products (e.g. particleboards) in the furniture industry, viz. by minimizing the offcuts for dimension stock. Tables are presented giving the optimum plans of particleboards to dimension stock.
DE: Particleboards-; processing-; uses-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-00737
UD: 9211
AN: F470440
DC: 1F073; 1F0661; 1F070
SM: BLDSC

27 of 788
TI: The jacarandas of Bahia.
OT: Os jacarandas da Bahia.
AU: Carvalho,-AMV-de; De-Carvalho,-AMV
AD: Centre de Pesquisas do Cacau, CEPLAC, 45600 Itabuna, Bahia, Brazil.
SO: Agrotropica. 1990., 2: 1, 1-10; 14 ref.
PY: 1990
LA: Portuguese
LS: English
AB: Descriptions are given of the morphology, distribution, habitat, timber and the most common uses of jacarandas in the genus Dalbergia in Bahia (D. nigra, D. decipularis, D. cearensis and D. miscolobium). Uses of the wood include furniture, musical instruments, decorative veneers, inlays etc.
DE: Broadleaves-; Distribution-; Dalbergia-; Plant-morphology; Dalbergia-nigra; Dalbergia-decipularis; Dalbergia-cearensis; Dalbergia-miscolobium; Brazil-; Bahia-; Wood-utilization; Musical-instruments; Furniture-; raw-materials; Veneers-
GE: Brazil-; Bahia-
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1991 052-02165; 1F Forest-Products-Abstracts 1991 014-01138

UD: 9211
AN: F473610
DC: 0F072; 1F0661; 0F0782; 1F065; 1F071
SM: Silwood/CSA 142

28 of 788
TI: Effect of particleboard properties on the consumption of sealant.
OT: Wplyw wlasciwosci plyt wiorowych na zuzyce szpachlowki.
AU: Paprzycki,-O; Wnuk,-R; Muszynska,-H; Tobola,-Z
AD: Katedra Klejenia i Uszlachetniania Drewna, Akademia Rolnicza, Poznan, Poland.
SO: Przemysl-Drzewny. 1988., 39: 10, 11-14; 11 ref.
PY: 1988
LA: Polish
AB: Further studies on surface sealing of particleboards for use in furniture making showed that 140 g/m2 of PE-UV unsaturated polyester sealant in 2 coats (100 + 40 g/m2) is enough when external layers are composed of small well-bonded chips (maximum 9.25 X 2.0 mm), whereas 180 g/m2 (100 + 40 + 40 g/m2) is required when chips are larger (up to 15.02 X 3.5 mm). Comparisons of PE-UV with the acrylic sealant A-UV (Wiederhold) showed that polyester sealants give a smoother surface finish. The first sealant coat should be sanded with abrasive paper No. 180 and 320 and the second with No. 180 prior to use of varnish or other finishes.
DE: Particleboards-; finishes-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-01090
UD: 9211
AN: F483909
DC: 1F055; 1F073; 1F0661
SM: BLDSC

29 of 788
TI: Drying of varnish coatings applied by the wet-on-wet method.
OT: Schniecie powlok lakierowych z wyrobow nanoszonych metoda mokro-na-mokro.
AU: Paprzycki,-O; Sliwocka,-B; Wnuk,-R; Kwiatek,-P
AD: Katedra Klejenia i Uszlachetniania Drewna, Akademia Rolnicza, Poznan, Poland.
SO: Przemysl-Drzewny. 1988., 39: 11-12, 2-4; 2 ref.
PY: 1988
LA: Polish
AB: Polyurethane enamel and 2 polyurethane varnishes (all made by Wiederhold) were applied to particleboards sealed with polyester sealants without drying and sanding in laboratory and furniture factory trials. Results showed successful setting without defects when coated boards were dried at 60-70 ° C for 40-50 min. Studies of the sticking together of finished boards when stacked showed that thorough cooling is necessary after drying to prevent this problem.
DE: Particleboards-; finishes-; Furniture-; raw-materials

PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-01091
UD: 9211
AN: F483925
DC: 1F055; 1F073; 1F0661
SM: BLDSC

30 of 788
TI: Methodology for measuring the index of surface stability of particleboards.
OT: Metoda oznaczania wskaznika stabilnosci powierzchni plyt wiorowych.
AU: Paprzycki,-O; Synowiec,-J; Konewka,-M
AD: Katedra Klejenia i Uszlachetniania Drewna, Akademia Rolnicza, Poznan, Poland.
SO: Przemysl-Drzewny. 1989., 40: 1, 8-10; 13 ref.
PY: 1989
LA: Polish
LS: English, Russian
AB: A rapid method is described for measuring an index of the stability of surface unevenness of boards based on British Standard BS 1811/1961. Five samples 250 X 150 mm were soaked in water at 20 ± 2 ° C for different periods, dried with filter paper and conditioned for 20-30 min at 20 ° C and 55% RH, before measuring the height of the 15-20 greatest unevennesses and taking the average of the 10 highest values for each surface. Average values of the index (PVm) after soaking for only 10 min gave a good approximation to values of PV measured according to the standard (involving much longer soaking and conditioning), whereas values of an index PVp based on exposure of samples to steam gave poor results. The method enables rapid assessments for use in the choice of appropriate surface finishes for furniture components.
DE: Particleboards-; finishes-; properties-; testing-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-00851
UD: 9211
AN: F483976
DC: 1F0125; 1F073; 1F0661
SM: BLDSC

31 of 788
TI: Effect of tenon length on bending strength of mortise-and-tenon joints.
AU: Imayama,-N; Ikehata,-T; Sugiura,-M; Nakamura,-I
AD: Faculty of Education, Shizuoka University, Shizuoka 422, Japan.
SO: Mokuzai-Gakkaishi-=-Journal-of-the-Japan-Wood-Research-Society. 1990., 36: 1, 86-91; 11 ref.
PY: 1990
LA: Japanese
LS: English
AB: Bending strength was determined for joints with tenon depth

held constant at 9.5 mm and with the length/depth (l/h) ratio changing from 0 to 2.1 at intervals of 0.1. Bending strength of the joints increased linearly as l/h ratio increased up to 1.0. At greater l/h ratios, the bending strength of the joint approached a constant value that was the same as the modulus of rupture of the material. These results can be used to estimate tenon dimensions when designing furniture. [With English captions].
DE: Joints-timber; testing-; Furniture-; design-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-01620
UD: 9211
AN: F485820
DC: 1F0661; 1F0433; 1F0323
SM: P

32 of 788
TI: Studies on solid wood steam bending.
AU: Hwang,-CY
SO: Bulletin-of-the-Taiwan-Forestry-Research-Institute. 1988., 3: 2, 99-120; 11 ref.
PY: 1988
LA: Chinese
LS: English
AB: Specimens of Chinese guger tree (Schima superba) and Taiwan acacia (Acacia confusa), 5.5 X 2 or 5.5 X 3 cm in cross-section, were soaked, steamed at 100 ° C and 1.5 kg/cm2 pressure for 30 min, bent and dried under restraint in an oven for 20-22 h. Bending failures were recorded and curvature deviations checked during storage under room conditions for 8 wk. S. superba was easier to bend than A. confusa and could be used to make good quality bentwood furniture provided its drying problems could be solved. [With English captions and tables.]
DE: Bentwood-; Schima-superba; Acacia-confusa; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-01619
UD: 9211
AN: F490883
DC: 1F066
SM: P

33 of 788
TI: Louro-pardo.
OT: Louro-pardo.
AU: Carvalho,-PER
AD: Centro Nacional de Pesquisa de Florestas, EMBRAPA, Curitiba, PR, Brazil.
SO: Boletim-de-Pesquisa-Florestal. 1988., No. 17, 63-66; 6 ref. Curitiba, Parana, Brazil.
PY: 1988
LA: Portuguese
AB: A brief description of the genus Cordia in S. America, covering

its distribution in Brazil, morphology, form, wood density and uses (including luxury furniture, overlays and laminates). C. alliodora, C. goeldiana and C. trichotoma, in particular, produce high quality wood. Cordia plantations have shown high incidence of tingid pests.

DE: Broadleaves-; Tingidae-; Cordia-; insect-pests; Brazil-; Distribution-; Wood-density; wood-utilization; Wood-properties; Cordia-alliodora; Cordia-goeldiana; Cordia-trichotoma; Furniture-; raw-materials; Veneers-
GE: Brazil-
PT: Numbered-Part
CAB: 0F Forestry-Abstracts 1991 052-03750; 1F Forest-Products-Abstracts 1991 014-01373
UD: 9211
AN: F491774
DC: 0F070; 1F0322; 0F072; 0F0782; 0F1024; 1F0661; 1F071; 1F072
SM: P

34 of 788
TI: A distribution analysis and testing of American wood materials in Taiwan.
AU: Lee,-KC (Lee, J.); Wu,-CS; Lee,-J
S O :
Quarterly-Journal-of-the-Experimental-Forest-of-National-Taiwan-University. 1988., 2: 4, 1-25; 20 ref.
PY: 1988
LA: Chinese
LS: English
AB: Between 1978 and 1987, imports of US hardwood logs, hardwood lumber and hardwood veneer to Taiwan increased 6.16, 109.52 and 14.0 X , respectively. At the same time, the use of US medium density fibreboard increased widely in the furniture industry. Red and white oak [Quercus spp.] were the most important species in terms of quantity and value. Domestic distribution channels are described. Analysis showed that demand for US timbers depended mainly on value of exported furniture, price ratio of US timber to that of SE Asian timber, time and a dummy variable representing the effect of an export ban in Indonesia. Cost analysis indicated that importing US timber and exporting furniture to the USA is profitable.
DE: Cost-analysis; Fibreboards-; MDF-; uses-; Timber-trade; international-trade; USA-; Taiwan-; Quercus-; Furniture-; raw-materials
GE: Taiwan-; USA-; Indonesia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-01726
UD: 9211
AN: F494668
DC: 1F10; 1F066
SM: P

35 of 788

TI: Red alder: opportunities for better utilization of a resource.
AU: Resch,-H
AD: Department of Forest Products, College of Forestry, Oregon State University, Corvallis, OR 97331-5704, USA.
SO: Special-Publication---Forest-Research-Laboratory,-Oregon-State-University. 1988., No. 16, ii + 14 pp.; 33 ref.
PY: 1988
LA: English
AB: The volume of red alder (Alnus rubra) has increased recently in stands along the Pacific coast of the NW USA. Specific areas where research is needed in order to increase utilization of red alder are identified, including improved access to and harvest of the resource, sawmilling, furniture manufacture, panel products and use for energy (methanol and ethanol manufacture, and fuelwood).
DE: Logging-; research-; Sawmilling-; Alnus-; Furniture-; raw-materials; Panels-; Energy-resources; USA-; Pacific-States-of-USA; Alnus-rubra; wood-utilization
GE: USA-; Pacific-States-of-USA
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1991 014-01602
UD: 9211
AN: F503179
DC: 1F060; 1F0422; 1F0431; 1F0661; 1F070; 1F029
SM: BN/USA

36 of 788
TI: High yield sawing - a system for automatic cutting of unedged pieces of wood into blanks.
OT: Hogutbytessagning - ett system for automatisk sonderdelning av okantade virkesstycken till amnen.
AU: Rydell,-R
AD: TrateknikCentrum, Box 5609, 114 86 Stockholm, Sweden.
SO: Rapport---TrateknikCentrum. 1987., No. I 8702013, 28 pp.; 12 ref. Sweden.
PY: 1987
LA: Swedish
LS: English
AB: The system uses a computer-based scanning process for measuring the shape and defects in a piece of wood and for determining the optimum cutting pattern for the production of blanks for joinery or furniture.
DE: Sawmilling-; automation-; outturn-; quality-; log-breakdown-methods; Furniture-; raw-materials
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1991 014-01903
UD: 9211
AN: F509924
DC: 1F0431; 1F0661
SM: BRE

37 of 788

TI: Trials to reduce cracks and deformation in joinery timber.
OT: Nagra forsok att reducera sprickbildning och deformation i snickerivirke.
AU: Lindberg,-L; Rydell,-R
AD: TrateknikCentrum, Box 5609, 114 86 Stockholm, Sweden.
SO: Rapport---TrateknikCentrum. 1987., No. I 8704030, 21 pp.; 2 ref. Sweden.
PY: 1987
LA: Swedish
LS: English
AB: Cleaving wide boards into thinner blanks or cutting grooves into the middle of both faces reduced the development of cracks during timber drying, but did not affect the deformation of 'inner' and 'outer' boards when sawing 4 boards, each 50 X 200 mm, from every log.
DE: Wood-defects; warping-; splits-; Drying-; losses-; Furniture-; raw-materials
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1991 014-01929
UD: 9211
AN: F509975
DC: 1F046; 1F045; 1F0661
SM: BRE

38 of 788
TI: Present state and development prospects for artificial veneers and laminates in Poland.
OT: Stan i tendencje rozwoju produkcjii oklein sztucznych i laminatow w Polsce.
AU: Krzoska-Adamczak,-Z; Urbanik,-E
AD: Instytut Technologii Drewna, Poznan, Poland.
SO: Przemysl-Drzewny. 1989., 40: 4, 7-10; 15 ref.
PY: 1989
LA: Polish
AB: A review of the manufacture and use of veneers and laminates based on resin-impregnated paper with wood grain effects or other designs as a surface for particleboards and fibreboards used mainly in furniture manufacture.
DE: Particleboards-; overlays-; Fibreboards-; Veneers-; Furniture-; raw-materials; Poland-; Reviews-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-02058
UD: 9211
AN: F510876
DC: 1F075; 1F073; 1F074; 1F0661
SM: BLOSC

39 of 788
TI: Problems and possibilities in utilizing wood residues from the furniture industry.
OT: Probleme und Moglichkeiten bei der Verwertung von Holzresten,

die in der Mobelindustrie anfallen.
AU: Friedrich,-G; Nake,-R
AD: WTZ der holzverarbeitenden Industrie, Dresden, German Democratic Republic.
SO: Holztechnologie. 1990., 31: 2, 71-74, 111.
PY: 1990
LA: German
LS: English, Russian
AB: An analysis is made of the amounts and types of residues from furniture factories in East Germany, and the current utilization or disposal of these residues. Various ways of improving and increasing the level of utilization of these materials are discussed. Sanding dust and residues of decorative film overlays are the most difficult materials to deal with.
DE: Furniture-; industry-; German-Democratic-Republic; Wood-dust; Overlays-; Waste-wood; processing-; uses-
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-02118
UD: 9211
AN: F511660
DC: 1F092; 1F0661
SM: BLDSC

40 of 788
TI: Influence of the method of fixing the back wall and door on the stiffness of storage furniture.
OT: Der Einfluss der Befestigungsart von Ruckwand und Tur auf die Steifigkeit von Behaltnismobeln.
AU: Dziegelewski,-S; Smardzewski,-J
AD: Agricultural Academy, Poznan, Poland.
SO: Holztechnologie. 1990., 31: 3, 136-139, 168; 4 ref.
PY: 1990
LA: German
LS: English, Russian
AB: The studies include theoretical design calculations and experimental tests on a cupboard made from 20-mm particleboard with a 5-mm plywood rear wall.
DE: Furniture-; manufacture-; Particleboards-; uses-; Plywood-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-02030
UD: 9211
AN: F512054
DC: 1F070; 1F0661
SM: BLDSC

41 of 788
TI: Requirements as regards environmental protection in the wood-based materials and furniture industry in the German Democratic Republic.
OT: Anforderungen an den Umweltschutz in der Holzwerkstoff- und Mobelindustrie der DDR.

AU: Merker,-O; Kusian,-R; Bohme,-U
AD: Wissenschaftlich-Technisches Zentrum der holzverarbeitenden Industrie, Dresden, German Democratic Republic.
SO: Holztechnologie. 1990., 31: 4, 177-181, 223; 12 ref.
PY: 1990
LA: German
LS: Russian, English
AB: A review of literature on the amounts and types of waste products from the wood and furniture industry causing environmental pollution in East Germany, and the regulations governing them. The main requirements to improve the present situation are listed; they include recycling (i.e. utilization) of waste products, the safe disposal of waste products, and minimizing various emissions (e.g. dust, formaldehyde, noise, etc.).
DE: Forest-products-industries; German-Democratic-Republic; pollution-; reviews-; industrial-wastes; Furniture-; industry-; Environmental-protection
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-02292
UD: 9211
AN: F514782
DC: 1F028
SM: BLDSC

42 of 788
TI: Malaysian wooden furniture sector - some marketing aspects.
AU: Shukri,-M
AD: Faculty of Forestry, University Pertanian Malaysia, 43400 Serdang, Selangor, Malaysia.
SO: Malaysian-Forester. 1987, publ. 1990?., 50: No. 1-2, 179-191; 6 ref.
PY: 1987
LA: English
AB: After a brief account of the background to the Malaysian wooden furniture sector, the results are discussed of a marketing survey made of 29 furniture manufacturers ('mills') in 4 size categories (cottage/household, and small, medium and large scale). The most common raw materials used are described; these included sawntimber (used by 71% of mills), rubberwood (16%), cane/rattan (13%), and some plywood and particleboard. About 72.4% of the total respondents were domestic trade orientated, with only the larger mills exporting most of their production. The extent to which the manufacturers used the 4 marketing-mix variables of product, price, promotion and channel of distribution is discussed. Most production (for local and export markets) was to order so strategic approaches to marketing were not used, and would need to be developed for practice of direct sales or expansion into the export market. Most sales go to market intermediaries.
DE: Furniture-; industry-; raw-materials; Malaysia-; Marketing-; Timber-trade
GE: Malaysia-
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1991 014-02609
UD: 9211
AN: F519350
DC: 1F10; 1F0661
SM: P

43 of 788
TI: Development of an optimum strategy of managing the amounts of wood materials in furniture production, on the basis of a stochastic model.
AU: Zhukovski,-P
AD: Lesotekh. Akad., Leningrad, USSR.
SO: Izvestiya-Vysshikh-Uchebnykh-Zavedenii,-Lesnoi-Zhurnal. 1988., No. 4, 113-118; 7 ref.
PY: 1988
LA: Russian
AB: The development of the model is described, and an example is given of its application to the management of the wood and board stocks in a factory producing various types of furniture.
DE: Furniture-; raw-materials; industry-; USSR-
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-02496
UD: 9211
AN: F521738
DC: 1F0661; 1F0128
SM: P

44 of 788
TI: Material-use trends in U.S. furniture manufacturing.
AU: Luppold,-WG
AD: Northeastern Forest Experiment Station, USDA Forest Service, Princeton, WV 24740, USA.
SO: Southern-Journal-of-Applied-Forestry. 1988., 12: 2, 102-107; 8 ref.
PY: 1988
LA: English
AB: A procedure was developed to estimate material use by furniture manufacturers from the US Census of Manufactures. The procedure was used to analyse actual and relative material usage in 1963, 1967, 1972 and 1982 by the (a) wood household, (b) upholstered household and (c) commercial furniture industries. Results indicate that the substitution of composite products (particleboard, hardboard and medium density fibreboard) for traditional hardwood products (lumber, veneer and plywood) has subsided recently in (a) but has continued in (c). Strong growth in softwood lumber use has occurred in (a) and (b), but not in (c). Although hardwood lumber has been displaced by softwood-based composite products, greater relative decreases have occurred in use of hardwood veneer and veneer core plywood because of composite panel substitution. Recent market activities indicate increased use of hardwood lumber in furniture in the 1980s. The implications of the trends in material use on

forest management are discussed.
DE: Furniture-; raw-materials; USA-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-02497
UD: 9211
AN: F532080
DC: 1F0661
SM: P

45 of 788
TI: Recognizing interactions among lumber grading rules, gang-ripping technology, and industry needs could increase the use of No. 2 Common lumber.
AU: Gatchell,-CJ
AD: USDA Forest Service, Forestry Science Laboratory, Rt. 2, Box 562-B, Princeton, WV 24740, USA.
SO: Forest-Products-Journal. 1989., 39: 2, 33-37; 9 ref.
PY: 1989
LA: English
AB: The minimum piece size used in establishing the No. 2 Common grade is 3 inches by 2 feet. The furniture and cabinet industry often needs shorter and narrower pieces than this. No. 2 Common often contains areas that contribute to total yield but cannot be used to establish the grade. Results from an analysis of the effects of crook on yield when gang-ripping narrow boards show that both No. 1 and No. 2 Common yield more long lengths and fewer short lengths than are required by industry. A discussion of computer-generated versus human-generated yields is included and a practical illustration of parts yields from gang-ripping No. 1 and No. 2 Common lumber is presented.
DE: Grading-; sawnwood-; Furniture-; industry-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-00263
UD: 9211
AN: F534376
DC: 1F046; 1F066
SM: P

46 of 788
TI: Economics of cutting hardwood dimension parts with an automated system.
AU: Huber,-HA; Ruddell,-S; Mukherjee,-K; McMillin,-C
AD: Dept. Forestry, Michigan State Univ., East Lansing, MI 48824, USA.
SO: Forest-Products-Journal. 1989., 39: 5, 46-50; 9 ref.
PY: 1989
LA: English
AB: A financial analysis using discounted cash-flow decision methods was completed to determine the economic feasibility of replacing a conventional roughmill crosscut and rip operation with a proposed automated computer vision and laser cutting system. Red

oak (Quercus falcata) and soft maple (Acer rubrum) lumber were cut at production levels of 30 thousand board feet (MBF)/day and 5 MBF/day to produce furniture and kitchen cabinet parts. Potential before-tax savings per day were determined from yield improvement as a direct result of reducing only the kerf width and labour costs. These ranged from $3440 to $406/day at production levels of 30 and 5 MBF/day, respectively. A daily lumber volume break-even analysis shows the required production level ranged from 5.8 MBF/day for a plant currently using 5 MBF/day, to 14.9 MBF/day for a plant capable of using 30 MBF/day. The after-tax net present values of the laser system investment were positive at production levels of 30 MBF/day, and negative at production levels of 5 MBF/day. Under the assumptions of this study, plant production levels and the price structure of lumber used were the important factors in determining the feasibility of making an Automated Lumber Processing System investment.
DE: Hardwoods-; Woodworking-; lasers-; automation-; economics-; Quercus-falcata; furniture-; Acer-rubrum; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-00310
UD: 9211
AN: F536433
DC: 1F066; 1F10
SM: P

47 of 788
TI: Records of four species of false powder-post beetle (Coleoptera: Bostrichidae) imported into Ireland.
AU: Good,-JA; Ashe,-P
AD: Department of Agricultural Zoology, University College Dublin, Belfield, Dublin 4, Irish Republic.
SO: Irish-Naturalists'-Journal. 1990., 23: 8, 326-327; 6 ref.
PY: 1990
LA: English
AB: Dinoderus minutus, a pest of bamboo products, is reported causing boring damage in chopsticks imported into the Irish Republic in 1989. D. minutus and D. brevis are reported infesting imported rattan furniture in the same year; in this case the bostrichids were associated with a species of silvanid, a species of clerid (both probably predators on the bostrichids) and at least one species of braconid parasitoid. Records of 2 other species of Dinoderus in Ireland are presented, taken from old museum specimens.
DE: Coleoptera-; Bostrichidae-; Hymenoptera-; stored-products-pests; predators-; parasitoids-; stored-products; insect-pests; Irish-Republic; Dinoderus-minutus; Dinoderus-brevis; distribution-; natural-enemies; bamboos-; commodities-; Dinoderus-; beneficial-insects; Cleridae-; Silvanidae-; Braconidae-; Wood-borers; introduced-species; Canes-and-rattans; Wood-products; Furniture-; pests-
GE: Irish-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1992 015-00679

UD: 9211
AN: K79536
DC: 1F0532; 1F0661; 1F0934
SM: see ACS

48 of 788
TI: Biodeterioration caused by insects on some furniture and the wood structure of Italian cultural property: prevention, control, struggle.
AU: Tiglie,-I
AD: Istituto Centrale per il Restauro, Via di S. Michele, 22, Rome I 00153, Italy.
SO: Biodeterioration of cultural property. Proceedings of the International Conference, 20-25 February, 1989, Lucknow, India [edited by Agrawal, O.P.; Shashi Dhawan]. 1991., 115-126; 13 ref. New Delhi, India; Macmillan India Limited.
PY: 1991
LA: English
AB: Three cases of biodeterioration caused by xylophagous insects are presented. The different situations are examined with regard to the environment, mechanism of attack, and damage done. The choices are illustrated for the various treatments and pertinent methods are formulated to obviate the disadvantages and damage of each event in relation to each situation, and the importance and function of affected objects. The means of prevention and control to be used in future are also shown.
DE: Wood-products; insect-pests; Italy-; Furniture-; Works-of-art; Conferences-; Biodeterioration-of-cultural-property,-Lucknow; Control-; Stored-products; Stored-products-pests; Biodeterioration-of-cultural-property; damage-; pests-; Wood-borers; Biodeterioration-
GE: Italy-
PT: Unnumbered-Part
IS: 0-333-92698-6
CAB: 1F Forest-Products-Abstracts 1992 015-01993
UD: 9211
AN: M676688
DC: 1F0532; 1F055; 1F0661
SM: See TACS

49 of 788
TI: Milling with the support effect - an effective new principle for dimensioning furniture elements.
OT: Frasen mit Stutzeffekt - ein neues Wirkprinzip zur Formatbearbeitung von Mobelbauteilen.
AU: Troger,-J; Lauter,-G
AD: VEB WTZ der holzverarbeitenden Industrie, Dresden, German Democratic Republic.
SO: Holztechnologie. 1988., 29: 2, 64-70, 111; 16 ref.
PY: 1988
LA: German
LS: English, Russian

AB: The basis of this new method for peripheral milling of furniture elements to size is to employ the 'internal' and 'external' supporting effect during milling. The design and installation of the supporting element is explained and illustrated, and the results are given of laboratory and industrial trials on various types of particleboards with and without overlays. The advantages of this new method included prolonged tool life, high quality of work, reduced noise, and unlimited scope of use.
DE: Particleboards-; overlays-; processing-; uses-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-00957
UD: 9211
AN: F396305
DC: 1F073; 1F0434
SM: BLDSC

50 of 788
TI: The structure of an automated information system for science and technology in the woodworking industry of East Germany.
OT: Zum Aufbau eines automatisierten Informationssystems Wissenschaft und Technik in der holzverarbeitenden Industrie der DDR.
AU: Kusian,-R
AD: VEB WTZ der holzverarbeitenden Industrie, Dresden, German Democratic Republic.
SO: Holztechnologie. 1988., 29: 4, 169-174.
PY: 1988
LA: German
AB: Details are given of the structure and application of the AIDOS OS/ES system (Automated Information, Documentation and Organization System) developed in E. Germany by the ROBOTRON VEB Combine at Dresden. The main outputs of the system are information searches using key words, selective dissemination of information using user profiles, and the compilation of bibliographies and other information listings. Currently, 8 E. German State Enterprises are linked to the system (including 5 furniture manufacturing enterprises).
DE: Information-services; German-Democratic-Republic; forest-products-industries; furniture-; industry-
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-00715
UD: 9211
AN: F396526
DC: 1F025; 1F0214; 1F0661
SM: BLDSC

51 of 788
TI: Studies on the wood properties of native hardwoods of major importance (IV). Wood properties of 2 species of genus Acer, 2

species of Prunus and 1 species of genus Kalopanax.
CA: Korea Republic, Research Team on the Wood Properties of Native Hardwoods.
AD: Forestry Research Institute, Seoul, Korea Republic.
SO: Research-Reports-of-the-Forestry-Research-Institute-Seoul. 1987., No. 34, 93-109; 27 ref.
PY: 1987
LA: Korean
LS: English
AB: A study of wood colour, texture, grain, anatomy, m.c., specific gravity, shrinkage, water absorption, compressive strength parallel to the grain, tensile strength parallel to the grain, static and impact bending strength, shear strength, cleavage resistance, nail withdrawal resistance, hardness, sawing and working characteristics, drying schedules, bonding properties, particleboard and plywood manufacture, pulping, charcoal characteristics etc. A. mono was found to be suitable for fancy veneers, furniture and carving; A. triflorum and P. padus for fancy veneers and bentwood; P. sargentii for high quality decorative work, bentwood and musical instruments; and K. pictum [K. pictus] for bentwood, carving and interior fittings. [With English captions and tables.]
DE: Wood-properties; Acer-mono; Acer-triflorum; Prunus-padus; Prunus-sargentii; Kalopanax-pictus; Wood-strength; Wood-anatomy; Wood-density; wood-utilization; drying-; Acer-; Prunus-; Kalopanax-; Bentwood-; Grain-and-figure; Musical-instruments; Carved-wood; Veneers-; raw-materials; hardness-; nail-holding-properties; shrinkage-; working-properties; Wood-moisture; sorption-; tensile-strength; shear-strength; cleavage-; compressive-strength; bending-strength; Colour-; wood-; Furniture-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-00735
UD: 9211
AN: F397026
DC: 1F030; 1F031; 1F066; 1F065; 1F0321; 1F0322; 1F0323; 1F045; 1F071
SM: BN/Korea

52 of 788
TI: Hydrogen chloride emissions during the combustion of wood residues from furniture manufacture.
OT: Chlorwasserstoffemissionen bei der Verbrennung von Holzreststoffen aus der Mobelherstellung.
AU: Marutzky,-R; Schriever,-E; Strecker,-M
AD: Fraunhofer-Institut fur Holzforschung, WKI, Braunschweig, German Federal Republic.
SO: WKI-Mitteilung. 1987., No. 449, 6 pp.; 8 ref. Reprinted from Holz- und Mobelindustrie 22, 1188-1193.
PY: 1987
LA: German
LS: English, French
AB: Measurements were made of the pollution (halogens, especially

Cl compounds) caused by burning various types of residues from furniture manufacture, viz. wood, bark, plywood, fibreboard, and particleboard, and various panel products coated with PVC films or melamine-resin overlays. The results are tabulated and discussed in detail. Natural wood contains Cl only as a trace element, and this is unimportant as regards pollution when the wood is burnt. Particleboards and other panel products contain significant quantities of inorganic Cl compounds, but only a small part of this Cl is emitted as a gaseous or vapour compound during burning. The W. German prescribed legal limit of pollution (30 mg Cl/m3) was only exceeded when PVC residues were present in the material being burnt, but even small amounts of PVC in the fuel (> 0.05%) can lead to the critical pollution value being exceeded. Accordingly, PVC residues must be separated from the other residues before burning, or effective technical measures to reduce the formation and release of HCl must be instituted. Alternatively, PVC should be replaced by Cl-free plastics in furniture manufacture.
DE: Pollution-; Overlays-; Fuels-; residues-; sawmilling-; Furniture-; raw-materials
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1990 013-00729
UD: 9211
AN: F398499
DC: 1F028; 1F092; 1F0661; 1F029; 1F070
SM: Repr./3198

53 of 788
TI: Value added opportunities for Alberta lodgepole pine solid wood products.
CA: Canada, Woodland Resource Services.
AD: Edmonton, Alberta, Canada.
SO: 1986, iv + 15 + 8 pp. Edmonton, Alberta, Canada; Forestry Canada/Alberta Forest Service (Canada-Alberta Forest Resource Development Agreement).
PY: 1986
LA: English
AB: A brief account is given of the Canadian furniture industry and the demand for pine products. A manufacturing unit is proposed that would acquire rough, green sawn lumber [of Pinus contorta] for further processing into components for the furniture industry in Alberta. Capital and operating costs of the remanufacturing plant are analysed.
DE: Furniture-; industry-; raw-materials; Sawmilling-; Pinus-; resawing-; design-; economics-; Pinus-contorta; Canada-; Alberta-
GE: Canada-; Alberta-
PT: Unnumbered-Whole
IS: 0-662-14950-5
CAB: 1F Forest-Products-Abstracts 1990 013-00879
UD: 9211
AN: F401104
DC: 1F0431; 1F0661; 1F10
SM: BN/Canada/Alberta/For. Res. Dev. Agree./Misc.

54 of 788
TI: Bolzano corporation trade fair Lignomec 85. Meeting on the theme: "Wood for living".
OT: Ente Autonomo Fiera di Bolzano. Lignomec 85. Convegno sul tema: "Abitare il legno".
AU: Delmarco,-O (Moderator)
AD: ITL, 38010 San Michele all'Adige (Trento), Italy.
SO: Quaderni-ITL---Istituto-per-la-Tecnologia-del-Legno. 1985., No. 9, i + 193 pp. San Michele all'Adige, Italy.
PY: 1985
LA: Italian, German
AB: Eight papers are presented on 3 topics: use of wood in buildings and furniture (3 papers); technical certificates and guarantees of wooden building components (3); and protective and surface treatments (2).
DE: Conferences-; Lignomec-85; Buildings-; materials-; Structures-; Finishes-; Wood-preservation; building-timbers; Furniture-; raw-materials
GE: Italy-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-01099
UD: 9211
AN: F404375
DC: 1F0119; 1F0631; 1F0661
SM: BN/Italy

55 of 788
TI: Industries making rattan furniture.
OT: Perusahaan membuat perabut rotan.
AU: Abd.-Latif,-M
AD: Forest Research Institute Malaysia, Kepong, 52109 Kuala Lumpur, Malaysia.
SO: FRIM-Technical-Information. 1988., No. 3, 8 pp.
PY: 1988
LA: Malay
AB: The stages of processing treated rattan canes into furniture are briefly described, especially the bending and finishing stages, with notes on the identification and uses of the 5 principal species in Peninsular Malaysia (Calamus manan, C. ornatus, C. scipionum, Korthalsia spp. and Plectocomia spp.). Prices of machinery and finished goods and costs of manufacture are given for a small factory processing 500 canes monthly and employing 4 workers.
DE: Canes-and-rattans; Calamus-manan; Calamus-ornatus; Calamus-scipionum; Korthalsia-; Plectocomia-; Furniture-; economics-; manufacture-; Malaysia-
GE: Malaysia-
PT: Numbered-Part
AV: M$2
CAB: 1F Forest-Products-Abstracts 1990 013-01518
UD: 9211
AN: F404790

DC: 1F0934; 1F0661
SM: BN/Malaysia

56 of 788
TI: Development/improvement of finishing materials and techniques suitable for furniture.
AU: Moredo,-FC; Tavita,-YL
AD: Forest Products Research and Development Institute, PCARRD, Laguna, Philippines.
SO: PCARRD-Monitor. 1987., 15: 10, 4. Laguna, Philippines; Philippine Council for Agriculture, Forestry, and Natural Resources Research and Development.
PY: 1987
LA: English
AB: A brief report from a research project on the use of: (1) resin from almaciga (Agathis philippinensis) for varnish, water-soluble stain, finishing oil and paint systems; (2) seeds from achuete (Bixa orellana) for colouring; and (3) seeds from lumbang (Aleurites moluccana) for oil. All the products gave promising (and economic) results when tested in 2 furniture making species - narra [Pterocarpus indicus] and tangile [Shorea polysperma].
DE: Resins-; uses-; products-; Agathis-philippinensis; finishes-; staining-; paints-; Seeds-; Bixa-orellana; Aleurites-moluccana; Minor-forest-products; Pterocarpus-indicus; furniture-; Shorea-polysperma; raw-materials
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-01360
UD: 9211
AN: F414052
DC: 1F055; 1F0931; 1F066
SM: Repr/3214

57 of 788
TI: Design and development of an integrated rattan pole steam conditioning and drying chamber for bent components.
AU: Cuaresma,-TG; Moredo,-FC
AD: FPRDI, College, Laguna 3720, Philippines.
SO: FPRDI-Journal. 1987., 16: 1-2, 1-14; 12 ref. Laguna, Philippines; Forest Products Research and Development Institute.
PY: 1987
LA: English
AB: The design, fabrication and testing are described of an experimental piece of equipment consisting of a small capacity, low pressure steam generator fired by wood and rattan waste, a rattan pole steaming cylinder and a rattan pole dryer. The set-up was designed so that the heat requirement of the dryer is derived from the hot flue gases from the stack of the steam generator. The equipment was shown to be technically feasible and economic for use in the production of bent furniture components. The overall thermal efficiency was 47.2%, boiler efficiency was 27.7% and heat recovery by the dryer was 19.6% of the total heat input. A more refined

set-up should have a higher overall thermal efficiency.
DE: Canes-and-rattans; Bentwood-; Bending-; Steaming-; Furniture-; manufacture-; Drying-; equipment-
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-01320
UD: 9211
AN: F414060
DC: 1F0455; 1F0934; 1F066
SM: P

58 of 788
TI: Furniture from anahau (Livistona rotundifolia (Lam.) Mart.) and buri (Corypha elata Roxb.) palmwood.
AU: Mosteiro,-AP
AD: FPRDI, College, Laguna 3720, Philippines.
SO: FPRDI-Journal. 1987., 16: 1-2, 46-57; 4 ref. Laguna, Philippines; Forest Products Research and Development Institute.
PY: 1987
LA: English
AB: Data are reported on the specific gravity, and drying and working properties of specimens of buri (50-65 yr old stems of ht. 10-14 m and diam. 60-80 cm) and anahau (20-25 yr old stems of ht. 6-8 m and diam. 18-20 cm) from various sites in the Philippines. The specific gravity of the hard outer portions of both species, taken from butt, middle and top portions, were in the range of values for traditional furniture manufacturing species. Air drying characteristics of the hard portion of both species were satisfactory even in the wet season. Buri stems were sawn with a bandsaw, and anahau stems with a chainsaw. Both operations were time-consuming (4 h for 18 buri stems, 6 h for 16 anahau stems) and resulted in dulling of the saw teeth or chainsaw. The results of planing, boring, mortising, turning and shaping tests are described. The machining properties of the 2 species were generally classified as fair to good, although those of buri were superior. There were problems in the use of high-speed steel blades, but these were generally overcome by using stellite- or carbide-tipped blades or cutters. During the fabrication of prototype furniture, both woods absorbed more finishing materials than conventional hardwoods. The finished items exhibited a unique appearance caused by the orientation, distribution and colour of the fibrovascular bundles and parenchymatous tissue. Production costs (given for a table and a chair) were less than from 2 traditionally used species (narra, Pterocarpus indicus and tangile, Shorea polysperma).
DE: Furniture-; raw-materials; Livistona-rotundifolia; CORYPHA-UTAN; Philippines-; Wood-properties; working-properties; Wood-density; Drying-; air-drying; Livistona-; Corypha-; Sawmilling-
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-01374
UD: 9211
AN: F414095

DC: 1F0661; 1F045; 1F043; 1F0322
SM: P

59 of 788
TI: Novelty furniture from tree roots.
AU: Torio-Rondolo,-M
AD: PCARRD, Laguna, Philippines.
SO: PCARRD-Monitor. 1989., 17: 2-3, 6-7. Laguna, Philippines; Philippine Council for Agriculture, Forestry and Natural Resources Research and Development.
PY: 1989
LA: English
AB: A brief account of the manufacture of novelty furniture (such as sala[d] and bar sets) from tree stumps left after logging (including roots and buttresses). Species used, processing techniques, marketing and distribution, and economic aspects (the product is made for both domestic use and export) are described.
DE: Furniture-; raw-materials; manufacture-; Philippines-; Waste-wood; uses-; Timber-trade; Stumps-
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-01375
UD: 9211
AN: F414575
DC: 1F0661; 1F0921; 1F10
SM: Repr/3229

60 of 788
TI: History and industrial dynamics of the forest products industry of the State of Santa Catarina, Brazil.
OT: Approche historique et dynamique industrielle de la filiere-bois de l'Etat de Santa Catarina (Bresil).
AU: Floriot,-JL; Kliemann-Neto,-FJ; Kopittke,-BH
AD: Departement Genie des Systemes industriels, Institut National Polytechnique de Lorraine, 54042 Nancy Cedex, France.
SO: Revue-Forestiere-Francaise. 1987., 39: 2, 131-144.
PY: 1987
LA: French
AB: The development of the forest products industry from 1950 to the present day is outlined. Until 1950, the industry was restricted to logging and sawing of Araucaria. Between 1950 and 1957, industries developed to produce veneer, plywood and mechanical pulp for paper from Araucaria. Between 1957 and 1966, chemical pulping took over. Between 1966 and 1978, reforestation was encouraged, with Pinus elliottii and P. taeda being the main species used in Santa Catarina. Economic problems and the decline in Araucaria resources forced many sawmills to close, which led to chemical pulp plants producing their own timber, increasingly Eucalyptus. Since 1978, the Araucaria sawmilling industry has declined further, while the chemical pulping industry has consolidated, using wood from pine reforestation stands. The pine sawmilling industry is expanding, with the timber being used for

furniture and building.
DE: Forest-products-industries; Brazil-; Pulping-; Araucaria-; Eucalyptus-; Pinus-; Pinus-elliottii; Pinus-taeda; Plywood-; industry-; Veneers-; raw-materials; Sawmilling-; Furniture-; Pulpwood-production
GE: Brazil-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-01579
UD: 9211
AN: F421296
DC: 1F0218; 1F043; 1F0661; 1F0630; 1F0631; 1F081
SM: P

61 of 788
TI: Determining the quality of veneer of 'red wood'.
AU: Kharitonova,-GA; Chubukina,-SM
AD: Rostovskoe PMO im. Uritskogo, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1988., No. 11, 26-27.
PY: 1988
LA: Russian
AB: Details are given of the problems experienced with a particular batch of sliced 'red-wood' ['mahogany'] veneer imported into the USSR, as compared with normal sipo [Entandrophragma utile]. The difficult batch of veneer could not be applied on furniture in the normal way, and delaminated completely. The veneer was identified as 'andung' [not further identified] and the adhesion problem was due to its high content of resinous substances, density and smoothness. It was possible to achieve good bond strength with fast-setting rubber glues.
DE: Veneers-; quality-; overlays-; Furniture-; raw-materials
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-02280
UD: 9211
AN: F438474
DC: 1F071; 1F0661
SM: BLDSC

62 of 788
TI: Impressing decorative relief elements on panel parts of furniture.
AU: Vitolin'sh,-Ya.
SO: Trudy-Latviiskoi-Sel'skokhozyaistvennoi-Akademii. 1988., No. 253, 11-16; 5 ref.
PY: 1988
LA: Russian
AB: Experiments were made on hot-pressing relief decorations simultaneously with the processes of facing particleboards with sliced veneer (ash, 'mahogany', larch). The relief decorations were made with metal rods of triangular, segmental, and rounded-triangular form, and also square and circular plates. The

rods and plates were orientated along and across the grain of the face veneer; the height of the rods was 1.9-4.6 mm, and the thickness of the plates was 0.7, 1.4 and 2.1 mm. The hot-pressing was carried out at various pressures, and at temperatures of 110, 130 and 150 ° C. It proved to be technically easy to create relief decorations by impressing, the best results being obtained with profiled rods having small cross-sections (4-8 mm2). The optimum pressing schedule for a triangular profile (cross-section 8 mm2) was 1.5-2.0 MPa, 130 ° C, 120 s; for a segmental profile (6.2 mm2) it was 1.0 MPa, 130 ° C, 120 s. The best results when impressing with plates were obtained with plates 1.4 mm thick, using a pressing temp. of 110 ° C for 5 min. at 5 MPa or more.
DE: Overlays-; Particleboards-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-02315
UD: 9211
AN: F438482
DC: 1F075; 1F0661; 1F073
SM: BN/Latvia

63 of 788
TI: Forest sector secondary industry development study.
CA: Canada, D. G. Bell & Associates Inc.
AD: D.G. Bell & Associates Inc., Toronto, Ontario, Canada.
SO: 1986, 46 pp.; Catalogue No. FO 42-91/14-1987E. Edmonton, Alberta, Canada; Forestry Canada/Alberta Forest Service (Canada-Alberta Forest Resource Development Agreement).
PY: 1986
LA: English
AB: The report of a study to identify specific business development opportunities for increased use of local timber and panel products in Alberta, including aspen [Populus tremuloides] and lodgepole pine [Pinus contorta] timber, OSB, MDF and plywood. Opportunities lie in the primary manufacture and distribution of these products, and in their use in secondary wood industries both locally and outside the province. Secondary product types reviewed include household furniture, office furniture, kitchen cabinets, pre-fabricated housing and speciality wood products, and particular attention is given to the potential for ready-to-assemble furniture products.
DE: Canada-; Alberta-; panels-; forest-products-industries; Populus-tremuloides; Pinus-contorta; furniture-; industry-; raw-materials; Particleboards-; OSB-; waferboards-; Fibreboards-; MDF-; Plywood-; uses-
PT: Unnumbered-Whole
IS: 0-662-15437-1
CAB: 1F Forest-Products-Abstracts 1990 013-02014
UD: 9211
AN: F440401
DC: 1F0217; 1F063; 1F066; 1F070
SM: BN/Canada

64 of 788
TI: The principle study of torsional strength of dowel joints in the particleboard members.
AU: Liu,-WQ
AD: Northeast Forestry University, Harbin, China.
SO: Journal-of-Northeast-Forestry-University. 1988., 16: 6, 101-104; 6 ref.
PY: 1988
LA: Chinese
LS: English
AB: A study of joints in 3 groups of particleboards in relation to internal strength, size and joint construction. It is concluded that particleboard is suitable for making upholstered furniture, if designed correctly.
DE: Joints-timber; dowelled-joints; Particleboards-; uses-; strength-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-02290
UD: 9211
AN: F442188
DC: 1F073
SM: BLDSC

65 of 788
TI: Reducing the use of wood in furniture components with thin particleboards.
OT: Senkung des Holzeinsatzes bei Mobelbauteilen durch Anwendung dickenreduziertier Holzspanplatten.
AU: Potz,-J; Stelmak,-I
SO: Holztechnologie. 1989., 30: 1, 33-35.
PY: 1989
LA: German
AB: The use of particleboards in furniture in Bulgaria, Cuba, the USSR and Czechoslovakia is reviewed, with reference to board properties and the relevant standards, and especially the use of thin particleboards (4, 6 or 8 mm thick). The designs and methods by which thin particleboards can be used in furniture, and the scope for reducing the consumption of solid wood in this way in Czechoslovakia, are discussed.
DE: Particleboards-; uses-; Bulgaria-; Cuba-; USSR-; Czechoslovakia-; Furniture-; raw-materials
GE: Bulgaria-; Cuba-; USSR-; Czechoslovakia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-02311
UD: 9211
AN: F444172
DC: 1F073; 1F0661
SM: BLDSC

66 of 788
TI: Wood and wooden furniture found in the royal tomb at Gordion.
OT: Gordiyon Kral Mezar i nda agac malzeme ve mobilya buluntular i

AU: Aytug,-B; Gorcelioglu,-E
AD: Faculty of Forestry, University of Istanbul, Turkey.
SO: Istanbul-Universitesi-Orman-Fakultesi-Dergisi.-Seri-A. 1987., 37: 1, 1-27; 16 ref.
PY: 1987
LA: Turkish
LS: English
AB: This spacious tomb 100 km SW of Ankara, Turkey, of the 8th century BC and probably that of King Midas of Phrygia, is in the form of a gabled log cabin (probably a replica house) inside a stone tumulus. The main design features of the building and furniture (a bed, screens, and 3-legged occasional tables) are described. The furniture was of original design and fine craftsmanship, featuring tenon joints, dowels, bentwood, marquetry and intricate abstract carving. Identification of wood samples showed the appropriate use of 6 locally available timbers: Buxus sempervirens (furniture only); Cedrus libani; Juglans regia (furniture); Juniperus foetidissima; Pinus sylvestris (building timbers only); and Taxus baccata.
DE: Turkey-; historic-buildings; Pinus-sylvestris; Old-and-fossil-wood; Buxus-sempervirens; Cedrus-libani; Juglans-regia; Juniperus-foetidissima; Taxus-baccata; Furniture-; history-
GE: Turkey-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-00250
UD: 9211
AN: F453635
DC: 1F061; 1F0661
SM: P

67 of 788
TI: Substitution in demand between sawnwood and other wood products in Norway.
AU: Baudin,-A; Solberg,-B
AD: Statistical Institute, University of Umea, Sweden.
SO: Forest-Science. 1989., 35: 3, 692-707; 28 ref.
PY: 1989
LA: English
AB: A combined factor and consumer demand logit model for analysing the substitution between sawnwood, particleboard, fibreboard and gypsum board was estimated for four industrial sectors (prefabricated houses, building materials, furniture and other indoor equipment, and building and construction) in Norway. The causes of substitution are discussed. It was found that they are not uniform over the sectors. For instance, in the building and construction sector, labour costs dominated while in the furniture sector, price differentials between sawnwood and particleboard were most important. Sectoral substitution analyses are used to make projections of sawnwood demand, by applying a multisector macroeconomic model for Norway.
DE: Timber-trade; domestic-trade; Norway-; Sawmilling-;

supply-balance; Particleboards-; Fibreboards-; simulation-; Buildings-; materials-; Furniture-; industry-; raw-materials; Wood-cement
GE: Norway-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-00816
UD: 9211
AN: F458599
DC: 1F10; 1F0128; 1F0631; 1F0431; 1F066; 1F073; 1F074; 1F076
SM: P

68 of 788
TI: Studies on the wood properties of native hardwoods of major importance. (V). Wood properties of Juglans mandshurica and 9 other species.
CA: Korea Republic, Research Team on the Wood Properties of Native Hardwoods.
AD: Forestry Research Institute, Seoul, Korea Republic.
SO: Research-Reports-of-the-Forestry-Research-Institute-Seoul. 1988., No. 36, 79-103; 29 ref.
PY: 1988
LA: Korean
LS: English
AB: A study of wood colour, texture, grain, anatomy, moisture content, specific gravity, shrinkage, water absorption, strength, woodworking properties, drying defects, bending, bonding, paintability, durability, discoloration, extractive contents, manufacture of plywood, particleboard, fibreboard and charcoal and pulping characteristics. It is concluded that J. mandshurica and Ulmus davidiana var. japonica could be used for fancy veneers and components of furniture; Fraxinus mandshurica and F. rhynchophylla are suitable for veneers and bentwood; Tilia amurensis for veneers and building interiors; Cornus controversa for bentwood and plywood; Maackia amurensis for high quality decoration and bentwood; Ailanthus altissima for furniture, building interiors, cement board; Cedrela [Toona] sinensis for veneers and high quality decoration; Paulownia tomentosa for furniture parts, parts of musical instruments and carving. [With English captions and tables.]
DE: Woodworking-; Hardwoods-; Bentwood-; Musical-instruments; Wood-cement; Wood-carving; Veneers-; Juglans-; Ulmus-; Fraxinus-; Tilia-; Toona-; Furniture-; Plywood-; Cornus-; Wood-properties; Juglans-mandshurica; Ulmus-davidiana; Fraxinus-mandshurica; Tilia-amurensis; Fraxinus-rhynchophylla; Cornus-controversa; Maackia-amurensis; Ailanthus-altissima; Toona-sinensis; Paulownia-tomentosa; Wood-anatomy; Wood-strength; wood-utilization; Grain-and-figure; durability-; wood-defects
GE: Korea-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-00508
UD: 9211
AN: F462995
DC: 1F030; 1F071; 1F0661; 1F072; 1F073; 1F074; 1F081; 1F087; 1F065

SM: BN/Korea

69 of 788
TI: How woodworm live.
OT: Come vivono i tarli del legno.
AU: Dindo,-ML
SO: Vita-in-Campagna. 1988., 6: 11, 71-72.
PY: 1988
LA: Italian
AB: The biology of the most common species of woodworm in Italy (Anobium punctatum, A. pertinax [Hadrobregmus pertinax] and Xestobium rufovillosum) and the cerambycid Hylotrupes bajulus (which can attack house timbers) are described. Brief information is also provided on termites and Lasioderma serricorne, which lives in the stuffing of furniture.
DE: Coleoptera-; Cerambycidae-; Anobiidae-; Anobium-punctatum; wood-; Italy-; Hadrobregmus-pertinax; Xestobium-rufovillosum; Hylotrupes-bajulus; Isoptera-; insect-pests; Lasioderma-serricorne; furniture-; biology-; Wood-borers; ecology-; Habrobregmus-pertinax; Lasioderma-sericorne
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1991 014-02460
UD: 9211
AN: K454050
DC: 1F0532; 1F066; 1F0631; 1F0533
SM: see ACS

70 of 788
TI: Furniture from alder modified by a thermochemical method.
AU: Sadzhaya,-DN; Murguliya,-LS; Dzvelaya,-ZS; Tsotseliya,-RA
AD: NPO 'Merkani', Georgian SSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1987., No. 9, 26-27.
PY: 1987
LA: Russian
AB: Wood specimens of common alder [Alnus glutinosa] and birch were modified by impregnation with conc. aqueous urea and urotropin [methenamine] and kiln-drying at 69 ° C. The mechanical properties and water absorption of the modified wood were similar to those of beech [Fagus orientalis], except that the modified birch was heavier. Monomer retention was 25-30%. The process was applied on a pilot scale at the Mtskheta woodworking factory, Soviet Georgia, to produce substitutes for beech chair components.
DE: Wood-plastic-composites; Alnus-glutinosa; Fagus-orientalis; Betula-alba; USSR-; Furniture-; raw-materials
GE: Georgian-SSR
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-00494
UD: 9211
AN: F295541
DC: 1F077; 1F0661
SM: BLDSC

71 of 788
TI: Decorative furniture components from the wood of soft-wooded broadleaved species.
AU: Boldyrev,-VS; Garin,-VA; Shamaev,-VA
AD: Voronezh Timber Engrg. Inst., USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1987., No. 10, 14-15; 5 ref.
PY: 1987
LA: Russian
AB: A thermomechanical process (stamping at high temp.), developed in the USSR for mass production of decorative reliefs, has been successfully applied to beech, but not to light hardwoods (aspen [Populus tremula] etc.) owing to poor quality of the raised surfaces. Effects of pressing conditions on the surface quality of aspen, birch and alder are reported. The highest quality was obtained by preliminary pressing of the wood to a density of 650-700 kg/m3. Impregnation of the wood with aqueous urea enabled stamping to be done at a lower temp. and pressure.
DE: Plasticized-wood; Wood-carving; Alnus-; Furniture-; raw-materials; Improved-wood; compressed-wood; USSR-; Betula-alba; Populus-tremula
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-00479
UD: 9211
AN: F295576
DC: 1F0661; 1F0432; 1F077; 1F0434
SM: BLDSC

72 of 788
TI: Comparison of selected schemes for the surface finishing of particleboards using lacquers.
OT: Porownanie wybranych technologii wykanczania powierzchni plyt wiorowych kryjacymi wyrobami lakierowymi.
AU: Paprzycki,-O; Sliwocka,-B; Wnuk,-R
AD: Kat. Klejenia i Uszlachetniania Drew., Akad. Rol., Poznan, Poland.
SO: Przemysl-Drzewny. 1987., 38: 10, 8-11; 16 ref.
PY: 1987
LA: Polish
LS: Russian, English
AB: Several schemes of sealing and varnishing were tested on 2 grades of particleboard for use in furniture manufacture. Best results were obtained with 2 coats of a polyester sealant (100 + 40 g/m2) with fine sanding between coats, followed by varnishing with chemically hardened enamel (150 g/m2) and urea-cellulose lacquers (100 g/m2).
DE: Particleboards-; finishes-; Paints-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-00447
UD: 9211
AN: F296505

DC: 1F055; 1F0661; 1F073
SM: BLDSC

73 of 788
TI: Situation of the wood supply in Hungary and its trend to be expected until 1990.
OT: Faellatasunk helyzete es 1990-ig varhato alakulasa.
AU: Varadi,-G
SO: Faipar. 1987., 37: 2, 53-57.
PY: 1987
LA: Hungarian
AB: Domestic forest resources outside established forests increased by > 20 000 ha between 1950 and 1965. In 1948-85, the area of oak stands important for furniture production increased by 22%. However, the proportion of standing stock in the young age classes is very high (28%), with 57% aged 31-80 yr, so that the area of stands aged 81 yr or more, mature enough for furniture making, is small. Utilization of the growing stock by the wood processing industry increased from 34 to 56% between 1950 and 1985. Harvesting of inferior stands at a greater rate is suggested; these could be used by an increase in the production of composite boards. Between 1960 and 1985, industrial wood production increased by 2.2 million m3 and that of raw material for sawmilling by 1 million m3. There are difficulties in satisfying the demand for coniferous wood and veneer logs. Recommendations include making the complex utilization of wood a priority, increasing awareness of demand for raw materials, establishing new stands and developing a complex forest protection system.
DE: Timber-trade; domestic-trade; Hungary-; Forest-products-industries; supply-balance; Sawmilling-; Panels-; composite-boards; Furniture-; raw-materials; Quercus-robur; forest-resources; afforestation-
PT: Numbered-Part
CI: Hungarian Agricultural Review (1988) 37 (1) 80.
CAB: 0F Forestry-Abstracts 1989 050-02172; 1F Forest-Products-Abstracts 1989 012-00896
UD: 9211
AN: F305997
DC: 1F10; 0F0214; 1F0661; 1F070
SM: BLDSC\ Hung. Agric. Rev. at SIER

74 of 788
TI: Paulownia in China: cultivation and utilization.
AU: Zhu,-ZH; Chao,-CJ; Lu,-XY; Xiong,-YG
CA: China, Chinese Academy of Forestry.
SO: 1986, vi + 65 pp.; 9 ref. Published jointly with the Asian Network for Biological Sciences, Singapore. Ottawa, Canada; International Development Research Centre.
PY: 1986
LA: English
AB: A study with 10 chapters covering: Paulownia significance and history; taxonomy and distribution (including a key to the 10

species); growth; ecological requirements; breeding; propagation; afforestation and management (including site preparation, planting, irrigation, drainage, pruning and thinning); intercropping (e.g. with wheat, maize, millet, cotton, soyabeans, rape and vegetables); important diseases and pests (with particular reference to witches' brooms and anthracnose); and wood properties (anatomy, density, defects, drying, insulation, sound conduction, working properties, grain and colour) and utilization (house construction, pulp and paper, in furniture, farm implements, for handicrafts, medicinal uses and for fodder and green manure).
DE: Fodder-; foliage-; Paulownia-; books-; China-; Witches'-brooms; Silviculture-; Taxonomy-; Distribution-; Medicinal-plants; Agroforestry-; Wood-properties; Pulping-; Wood-utilization; Tools-; Green-manures; Furniture-; raw-materials; Buildings-; materials-; Multipurpose-trees; Intercropping-; Triticum-; Zea-mays; millets-; Gossypium-; Glycine-max; Brassica-napus; vegetables-; Paulownia-in-China
GE: China-
PT: Unnumbered-Whole
IS: 9971-84-546-6
CAB: 0F Forestry-Abstracts 1989 050-02836; 1F Forest-Products-Abstracts 1989 012-00901; 7Y Agroforestry-Abstracts 1989 002-00699
UD: 9211
AN: F311938
DC: 0F0111; 1F0111; 0F03729; 0F1514; 0F071; 1F060; 1F030; 1F081; 1F093
SM: BN/Canada/IDRC/Misc.

75 of 788
TI: Formaldehyde emission from plywood and blockboard.
OT: Formaldehydemission von Lagenholz und Verbundplatten.
AU: Bohme,-P; Merker,-O; Moller,-A
AD: VEB WTZ der holzverarbeitenden Industrie, Dresden, German Democratic Republic.
SO: Holz-als-Roh--und-Werkstoff. 1988., 46: 12, 473-475; 12 ref.
PY: 1988
LA: German
LS: English
AB: Formaldehyde emission (FE) of panels manufactured in E. Germany was studied using the perforator method. In samples produced up to June 1987, FE values of 0.17-0.45 p.p.m. were recorded. Following introduction of a low-formaldehyde UF resin, a new hardener and process modification in July 1987, FE values were 0.02-0.10 p.p.m. in 5-17 mm plywood and 18-25 mm blockboard. Panels with FE ¾ 0.1 p.p.m. are suitable for use in furniture manufacture.
DE: Formaldehyde-; blockboard-; plywood-; adhesives-; uses-; Furniture-; raw-materials; additives-; health-hazards; German-Democratic-Republic
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-00929
UD: 9211

AN: F314341
DC: 1F028; 1F072; 1F079
SM: P

76 of 788
TI: Pulmonary function in wood workers exposed to formaldehyde: a prospective study.
AU: Alexandersson,-R; Hedenstierna,-G
AD: Department of Occupational Medicine, Karolinska Hospital, 104 01 Stockholm, Sweden.
SO: Archives-of-Environmental-Health. 1989., 44: 1, 5-11; 22 ref.
PY: 1989
LA: English
AB: Lung function was studied in employees exposed to formaldehyde during the manufacture of kitchen cabinets. Results showed that lung function was impaired by exposure during a work shift. A progressive, small impairment was seen over 5 yr; this almost disappeared during a 4-wk holiday.
DE: Formaldehyde-; safety-; Health-; Adhesives-; health-hazards; Furniture-; industry-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-01181
UD: 9211
AN: F321011
DC: 1F027; 1F066; 1F079
SM: SRIS

77 of 788
TI: Deflection and load assumptions in carcass-type furniture design.
OT: Durchbiegung und Lastannahmen im Korpusmobelbau.
AU: Albin,-R
AD: Labor fur Mobeltechnik, Fachhochschule Rosenheim, German Federal Republic.
SO: Holz-als-Roh--und-Werkstoff. 1989., 47: 1, 7-10; 11 ref.
PY: 1989
LA: German
LS: English
AB: Load assumptions and defined values for long-term MOE in particleboards with different coatings are a precondition for calculating the deflection of loaded furniture parts. Results are reported of studies on 19-mm 3-layer boards, either uncoated or coated (both sides) with melamine or 0.6 mm limba [Terminalia superba] veneer. A relatively long test period of 28 days was used. There was a large scatter of MOE values in the nominally uniform boards. After only 1 day loading approx. 80%, and after 7 days approx. 90% of final deflection was attained. Loads for various conditions of use were determined; some of these were extremely high and not acceptable as standard loads. Further studies on load assumptions are needed in the context of design of shelf boards that meet DIN 68 874 standard load classes.
DE: Furniture-; raw-materials; Particleboards-; overlays-;

strength-; uses-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-01279
UD: 9211
AN: F323910
DC: 1F073; 1F0661
SM: P

78 of 788
TI: The Mississippi furniture industry and its use of wood-based materials.
AU: Bullard,-SH; Doherty,-BA; Short,-PH
AD: Department of Forestry, Mississippi Agricultural and Forestry Experiment Station, Mississippi State, MS 39762, USA.
SO: Research-Report,-Mississippi-Forest-Products-Utilization-Laboratory. 1988., No. 13, 20 pp.; 50 ref.
PY: 1988
LA: English
DE: Furniture-; industry-; USA-
GE: USA-; Mississippi-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1989 012-01440
UD: 9211
AN: F328610
DC: 1F0661
SM: BN/USA

79 of 788
TI: Case-control study of nasal cancer in workers employed in wood-related industries.
AU: Viren,-JR; Imbus,-HR
AD: H. R. Imbus, Health & Hygiene, Inc., 4605-E Dundas Dr, Greensboro, SC 27407, USA.
SO: Journal-of-Occupational-Medicine. 1989., 31: 1, 35-40; 17 ref.
PY: 1989
LA: English
AB: A study of nasal cancer deaths in Washington, Oregon, Mississippi and North Carolina was undertaken to determine whether there was an excess of such deaths among workers with various occupations in the lumber, wood products and furniture industries. Results indicated that there was no association between nasal cancer and industry or occupation normally identified with wood dust. An apparent association between nasal cancer and employment in the logging industry may be due to coding and other biases in the study.
DE: Health-; Labour-; forestry-; forest-products-industries; Logging-; USA-; Furniture-; industry-
GE: USA-; Washington-; Oregon-; Mississippi-; North-Carolina
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-01713
UD: 9211

AN: F340490
DC: 1F027
SM: BLDSC

80 of 788
TI: Program BLANKS on the IBM-PC.
AU: Reynolds,-HW; Araman,-PA
AD: Northeastern Forest Experiment Station, USDA Forest Service, Princeton, WV, USA.
S 0 :
General-Technical-Report,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1986., No. NE-107, 28 pp.; 5 ref.
PY: 1986
LA: English
AB: Four computer programs are described and listed, that allow a company to determine the number of blanks (standard size, edge glued, solid hardwood panels) needed to satisfy the need for rough-dimension parts in a given cutting bill of quantities in the furniture industry. A sample rough-part cutting bill and a blanks analysis are included.
DE: Furniture-; computer-techniques; raw-materials
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1989 012-01869
UD: 9211
AN: F352596
DC: 1F0129; 1F0661
SM: BN/USA

81 of 788
TI: OPTIGRAMI users manual.
AU: Martens,-DG; Whitenack,-KR; Nevel,-RL, Jr.
AD: Northeastern Forest Experiment Station, USDA Forest Service, Princeton, WV, USA.
S 0 :
General-Technical-Report,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1986., No. NE-109, 11 pp.; 3 ref.
PY: 1986
LA: English
AB: The program was developed to predict the optimum (or least cost) grade mix of hardwood lumber to produce a given cutting order of furniture dimension parts. If the opt. mix is not available, the program can be used to determine the best alternative.
DE: Furniture-; computer-techniques
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1989 012-01870
UD: 9211
AN: F352600
DC: 1F0129; 1F0661
SM: BN/USA

82 of 788

TI: Rattan waste utilization.
AU: Abdul-Latif-Mohmod; Mohd.-Rashid-Samad
AD: Forest Research Institute Malaysia, Kepong, Selangor, Malaysia.
SO: RIC-Bulletin. 1986., 5: 4, 3-4.
PY: 1986
LA: English
AB: Waste from rattan processing for furniture amounts to 4-28%. Uses suggested for this include parquet flooring and wall panelling, frames and decorative items, and various turned products.
DE: Canes-and-rattans; Wood-products; Furniture-; raw-materials; Waste-wood; processing-
GE: Malaysia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-02346
UD: 9211
AN: F357571
DC: 1F0934; 1F0661; 1F092
SM: P

83 of 788
TI: Assessment of resistance in three types of joints used in furniture construction.
OT: Analisis de resistencia en tres tipos de juntas utilizada en la construccion de muebles.
AU: Picado,-F
AD: Departamento de Ingenieria en Maderas, Instituto Tecnologico de Costa Rica, Cartago, Costa Rica.
SO: Tecnologia-en-Marcha. 1984., 7: 2, 51-56; 6 ref.
PY: 1984
LA: Spanish
AB: Three types of joints are used in Costa Rica: two-pin dowel joint, tongue-and-groove (t.&g.) joint, and knock-down joint. Trials were carried out using wood of Virola koschnyi. Experimental and estimated values of max. loading, bending moment and bending strength are given for the 3 types of joints. An analysis of variance for max. loading showed a statistically significant difference between the 3 types of joints. The means for max. loading were 100.8, 85.4 and 39.5 for t.&g., two-pin dowel and knock-down joints respectively.
DE: Joints-timber; dowelled-joints; testing-; Costa-Rica; furniture-; raw-materials; Virola-koschnyi
GE: Costa-Rica
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-02247
UD: 9211
AN: F365183
DC: 1F0433; 1F0661
SM: P

84 of 788
TI: Beech (Fagus sylvatica) with undulating wood.

OT: Buk zwyczajny (Fagus silvatica L.) o falistym drewnie.
AU: Cwiklinski,-E
AD: Zaklad Botaniki, Akademii Rolniczej w Szczecinie, Poland.
SO: Rocznik-Dendrologiczny. 1983/1984, publ. 1986., 35, 69-74; 14 ref.
PY: 1983
LA: Polish
LS: English
AB: Beech trees with an undulating bark pattern giving a banded appearance to the stem were observed at 2 sites near Szczecin, Poland. Internal studies showed undulating wood on the S. side of the trunk with undulations 15 cm long on av. giving an attractive wavy grain in radial and tangential sections. Such stems have great potential in furniture manufacture.
DE: Wood-anatomy; abnormal-development; Fagus-sylvatica; Wood-; aesthetic-value; Furniture-; raw-materials
GE: Poland-
PT: Numbered-Part
IS: 83-01-07380-2
CAB: 0F Forestry-Abstracts 1989 050-07699; 1F Forest-Products-Abstracts 1990 013-00045
UD: 9211
AN: F368212
DC: 0F072; 1F031; 1F0661
SM: BN/Poland

85 of 788
TI: Prospects for laser cutting of wood.
AU: Abil'siitov,-GA; Skoromnik,-VI; Grezev,-AN; Safonov,-AN; Ovchinnikov,-AL
AD: N.-I. Tsentr po Tekhnologicheskim Lazeram AN, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1988., No. 4, 4-5.
PY: 1988
LA: Russian
AB: A summary account is given of experience in the USSR in using a CO2 laser (wavelength 10.6 μ m, radiation 150-1000 W, working in a continuous, pulsed, or pulsed-periodic regime) for cutting out plywood for furniture production. The lay-out of the laser cutting unit is described. The best results were obtained with a pulsed regime, with a pulse duration of 100-900 ms and an interval of 50-950 ms between pulses; using a long-focus lens, the kerf width is 0.4-0.6 mm. Cutting plywood 22 mm thick with a laser radiation of 500 W, the speed of cutting is 0.75 10 - 3 m/s. The advantages of laser cutting over conventional cutting are listed.
DE: Woodworking-; cutting-; lasers-; Furniture-; raw-materials; Plywood-; processing-
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-00224
UD: 9211
AN: F374310
DC: 1F072; 1F066
SM: BLDSC

86 of 788
TI: Studies on the wood properties of native hardwoods of major importance. (III) Wood properties of 4 species of genus Alnus, 2 species of genus Populus and 1 species of genus Salix.
CA: Korea Republic, Research Team on the Wood Properties of Native Hardwoods.
AD: Forest Research Institute, Seoul, Korea Republic.
SO: Research-Reports-of-the-Forestry-Research-Institute-Seoul. 1986., No. 33, 67-91; 33 ref.
PY: 1986
LA: Korean
LS: English
AB: A study of wood anatomy, green m.c., water absorption, shrinkage, hardness, shear strength, bending strength, compressive strength, cleavage resistance, resistance to nail withdrawal, drying schedules, working characteristics, bonding characteristics, paintability, manufacture of plywood, fibreboard and particleboard, pulping, charcoal, wood chemistry and decay resistance showed that A. japonica, A. hirsuta, A. hirsuta var. sibirica and A. firma are suitable for making furniture, tools and packaging; P. nigra X P. maximowiczii and P. koreana X P. nigra var. italica are suitable for matchsticks, packing, boxes and veneers; and S. babylonica is suitable for furniture, toys, matchsticks and wooden art objects (bentwood). [With English tables and captions.]
DE: Plywood-; raw-materials; Alnus-; Populus-; Salix-; Particleboards-; Fibreboards-; Drying-; Pulping-; Wood-properties; Alnus-japonica; Alnus-hirsuta; Alnus-firma; Populus-maximowiczii-X-P.-nigra; Populus-koreana-X-P.-nigra-var.-italica; Salix-babylonica; Wood-strength; Wood-anatomy; Wood-chemistry; wood-utilization; kiln-schedules; Wood-products; Bentwood-; Gluing-; Furniture-; Charcoal-; Packaging-; Packing-containers; Match-manufacture
GE: Korea-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-00040
UD: 9211
AN: F374964
DC: 1F030; 1F032; 1F060; 1F070; 1F045; 1F080
SM: BN/Korea

87 of 788
TI: A study on utilization of furniture parts from Alnus.
AU: Lee,-CT; Chung,-DJ; Park,-JH
AD: Forest Research Institute, Seoul, Korea Republic.
SO: Research-Reports-of-the-Forestry-Research-Institute-Seoul. 1986., No. 33, 110-116; 27 ref.
PY: 1986
LA: Korean
LS: English
AB: Butt swell, log grade, lumber yield, and opt. kiln schedules are given for 23-yr-old A. hirsuta and 52-yr-old A. hirsuta var. sibirica. Working properties were found to be good. [With English

tables.]
DE: Wood-properties; working-properties; Alnus-hirsuta; log-grade; furniture-; drying-; Stem-form; quality-; swelling-; Sawmilling-; outturn-; kiln-schedules; Alnus-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-00560
UD: 9211
AN: F374999
DC: 1F0661; 1F046; 1F045; 1F0431
SM: BN/Korea

88 of 788
TI: Studies on the properties and utilization of several hardwoods from South America. Three Chilean hardwoods.
CA: Korea Republic, Research Team of South American Hardwood.
AD: Forest Research Institute, Seoul, Korea Republic.
SO: Research-Reports-of-the-Forestry-Research-Institute-Seoul. 1986., No. 33, 117-125; 10 ref.
PY: 1986
LA: Korean
LS: English
AB: A study of wood colour, anatomy, specific gravity, shrinkage, working properties, drying schedules, bending, bonding, paintability, pulping, plywood, particleboard and fibreboard manufacture, chemistry, durability, chemical discoloration and charcoal production indicated that coigue (Nothofagus dombeyi) is suitable for plywood core stock and particleboard; tepa (Luerlia [Laurelia] philippiana) is suitable for furniture, interior trim and plywood; and ulmo (Eucryphia cordifolia) is suitable for general construction, furniture components, pulp and charcoal. [With English tables.]
DE: Drying-; Nothofagus-; Laurelia-; Eucryphia-; Pulping-; Plywood-; raw-materials; Particleboards-; Wood-properties; Nothofagus-dombeyi; LAURELIA-AROMATICA; Eucryphia-cordifolia; Wood-strength; Wood-anatomy; Wood-chemistry; wood-utilization; Furniture-; Charcoal-; kiln-schedules
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1990 013-00041
UD: 9211
AN: F375006
DC: 1F030; 1F032; 1F031; 1F081; 1F070; 1F033; 1F060; 1F087
SM: BN/Korea

89 of 788
TI: Good mulberry [Morus] varieties in Hebei province.
AU: Wu,-Y; Gao,-Y; Pang,-Y
AD: Inst. Silkworm & Mulberry Res., Hebei Acad. Agric. Sci., China.
SO: Zuowu-Pinzhong-Ziyuan. 1989., No. 1, 42-43.
PY: 1989
LA: Chinese
AB: Varieties which are good for feeding silkworms, weaving, fruit, hayfork production and furniture are briefly described.

DE: Mulberries-; Morus-; varieties-; cultivars-; characteristics-; China-; Broadleaves-; Genetics-; variation-; Silkworms-; Hebei-; Furniture-; raw-materials; Multipurpose-trees; Wood-products
GE: China-; Hebei-
PT: Numbered-Part
CAB: 0F Forestry-Abstracts 1990 051-07113; 1F Forest-Products-Abstracts 1990 013-02276; 7Y Agroforestry-Abstracts 1990 003-01193
UD: 9211
AN: P096313
DC: 0F082; 1F0661; 0F0398; 1F0356
SM: see ACS

90 of 788
TI: Technology and equipment of woodworking industries: an intercollegiate collection of scientific papers.
OT: Tekhnologiya i oborudovanie derevoobrabatyvayushchikh proizvodstv: mezhvuzovskii sbornik nauchnykh trudov.
CA: USSR, Leningradskaya Lesotekhnicheskaya Akademiya imeni S. M. Kirova.
AD: Leningrad Kirov Acad. Wood Technol., Leningrad, USSR.
SO: 1985, 108pp. Leningrad, USSR.
PY: 1985
LA: Russian
AB: Results of research on the technology of lumber, glulam, wood-based boards and furniture.
DE: Woodworking-; books-; Research-; USSR-; Laminated-wood; Furniture-; Panels-
GE: USSR-
PT: Unnumbered-Whole
AV: 1 r
CI: notice in Derevoobrabatyvayushchaya Promyshlennost' (1986) No. 7, 18. Ru. BLDSC.
CAB: 1F Forest-Products-Abstracts 1988 011-00424
UD: 9211
AN: F205283
DC: 1F0111; 1F025; 1F060; 1F070

91 of 788
TI: Conference on the problem: Briquetting of lignocellulose residues in mechanical briquetting machines.
OT: Konferencja problemowa nt. 'Brykietowanie odpadow lignocelulozowych w brykieciarkach mechanicznych'.
AU: Dolny,-S; Filipczak,-J; Kania,-S; Gacal,-B; Lecka,-J; Sroka,-L
SO: Przemysl-Drzewny. 1987., 38: 3, 5-15; BLDSC.
PY: 1987
LA: Polish
AB: A report of a conference held on July 30, 1986 at the Wolsztyn Furniture Factory in Poland which includes 5 of the 8 papers presented: Feeding of the briquetting line with wood waste (Dolny, S.); Testing of a prototype rotary briquetting machine for wood waste (Filipczak, J.; Kania, S.); Technology of briquetting

lignocellulose waste with piston briquetting machines (Gacal, B.; Kania, S.); Formaldehyde emission during the production and combustion of briquettes made from woodworking industry wastes (Lecka, J.); Waste utilization at the Wolsztyn Furniture Factory (Sroka, L.).
DE: Conferences-; Briquetting-of-lignocellulose-residues-in-mechanical-briquetting-machines; Waste-wood; fuels-; Poland-; Pollution-; industrial-wastes; Furniture-; industry-; briquettes-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00621
UD: 9211
AN: F205410
DC: 1F092; 1F029; 1F028

92 of 788
TI: Probabilistic model for the management of timber stocks.
OT: Probabilistyczny model kierowania zapasami podstawowych materialow drzewnych.
AU: Zukowski,-P
AD: Inst. Tech., Univ. Szczecin, Poland.
SO: Przemysl-Drzewny. 1987., 38: 3, 15-18, 23, iii; 12 ref. BLDSC.
PY: 1987
LA: Polish
LS: Russian, English
AB: A model is developed for predicting optimum mean 'safe' stock level and consignment size for a given species of timber used in Polish woodworking enterprises (especially furniture factories) based on storage costs, consignment cost, product demand, rate of turnover, profit etc. The model has been validated using numerical data for the production of several wood products.
DE: Furniture-; industry-; Forest-products-industries; management-; Poland-; simulation-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00438
UD: 9211
AN: F205429
DC: 1F0128; 1F066

93 of 788
TI: Improving construction of upholstery frames and economy of timber use in their construction.
OT: Optymalizacja konstrukcji ram tapicerskich i racjonalizacja ich produkcji jako metody oszczedzania materialu drzewnego.
AU: Dziegielewski,-S
AD: Kat. Meblarstwa, Akad. Rol., Poznan, Poland.
SO: Przemysl-Drzewny. 1985., 36: 7, 14-17; 4 ref.
PY: 1985
LA: Polish
AB: The construction of leisure furniture frames is further

discussed and trials reported of glulam frame members using small dimension and waste wood. Data for 6 variants of 40 X 45 mm section showed that several produce frames with strength and resistance to distortion under repeated loading approaching that of Scots pine frames with cost reductions of zl\thin\80-107 per frame. Best results were with 3 bonded layers of Scots pine of 40 X 15 mm section, and a 40 X 15 mm layer of poplar bonded between two 40 X 15 mm layers of Scots pine. Members incorporating fibreboard layers sandwiched between pine had poor strength properties.
DE: Furniture-; raw-materials; Laminated-wood; Pinus-sylvestris; Populus-strength; uses-; Populus-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00588
UD: 9211
AN: F205534
DC: 1F0661; 1F072
SM: F-Reprint/2838

94 of 788
TI: Studies on wood-based materials for furniture shelves.
OT: Untersuchungen an Holzwerkstoffen fur Mobel-Einlegeboden.
AU: Grigoriou,-A
AD: Dep. For. & Natural Envir., Aristotelian Univ., Thessaloniki, Greece.
SO: Holz-als-Roh--und-Werkstoff. 1987., 45: 8, 335-338; 8 ref.
PY: 1987
LA: German
LS: English
AB: Deflection under transverse loading (for 28 days, followed by 28 days unloaded) was studied in samples of approx. equal thickness (17.8-18.6 mm) of: (a) uncoated UF particleboard; (b) melamine-overlay UF particleboard; (c) veneered UF particleboard; (d) blockboard (UF-glued poplar/okoume [Aucoumea klaineana]); (e) okoume plywood; and (f) clear Norway spruce solid wood. Deflection decreased in the order (a) > (b) > (c) > (d) > (e) > (f). Bending deflection was strongly related to bending strength and MOE.
DE: Panels-; strength-; Paticleboards-; Plywood-; Furniture-; testing-; Particleboards-; overlays-; Blockboard-; Wood-strength; bending-strength; Picea-; Picea-abies; elasticity-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00589
UD: 9211
AN: F206042
DC: 1F070; 1F0323; 1F066
SM: F-P

95 of 788
TI: 6th Wood Technology Colloquium at the Technical University Dresden.
AU: Niklarz,-W; Militzer,-KE; Blossfeld,-O; Meyer,-B; Pecina,-H; Wienhaus,-O; Scheithauer,-M; Bohme,-P; Kehr,-E; Riehl,-G; Rinkefeil,-R; Buschbeck,-L; Friedrich,-B; Fischer,-R; Harbich,-W;

Schick,-K; Juvonen,-R
SO: Holztechnologie. 1985., 26: 4, 171-198; 48 ref. BLDSC.
PY: 1985
LA: German
LS: English, Russian
AB: A collection of 9 papers presented on 21 and 22 Feb. 1985. Following an introductory paper by Niklarz, W., topics covered include: developments in drying technology (Militzer, K.E.; 8 ref.); use of wood from pollution-damaged trees (Blossfeld, O.; Meyer, B.; 10 ref.); (adhesives for wood-based materials) made from forest products industry by-products (Pecina, H.; Wienhaus, O.; 16 ref.); formaldehyde emission from overlay-covered particleboard-based furniture (Scheithauer, M.; Bohme, P.; Kehr, E.; Riehl, G.; Rinkefeil, R.; 10 ref.); use of particleboard with reduced formaldehyde content in the E. German furniture industry (Buschbeck, L.; Friedrich, B.); automated detection of defects in solid wood (Fischer, R.; Harbich, W.; Schick, K.; 4 ref.); and automated quality measurements in sawmills (Juvonen, R.).
DE: Conferences-; Wood-Technology-Colloquium,-Technical-University-Dresden;Drying-; energy-consumption; Wood-chips; Air-pollution; wood-properties; Adhesives-; raw-materials; Panels-; Formaldehyde-; particleboards-; overlays-; German-Democratic-Republic; furniture-; Sawmilling-; automation-; quality-; forest-products-industries
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00434
UD: 9211
AN: F207243
DC: 1F0119; 1F0214; 1F028; 1F030; 1F040; 1F0661; 1F070

96 of 788
TI: Basic study on the various glued joints. (3) Application to the wooden chair frame.
AU: Ishii,-M; Miyajima,-H
AD: Lab. Wood Engineer., Fac. Agric., Hokkaido Univ., Japan.
SO: Research-Bulletins-of-the-College-Experiment-Forests,-Hokkaido-University. 1983., 40: 4, 753-772; 13 ref. En captions and tables.
PY: 1983
LA: Japanese
LS: English
AB: Deflections were observed at 6 points when chair frames made from ezomatsu (Picea jezoensis), karamatsu (Larix kaempferi [L. leptolepis]) and mizunara (Quercus mongolica var. grosseserrata [Q. crispula]) with 2 kinds of mortise and tenon joints were loaded.
DE: Picea-jezoensis; Quercus-crispula; Furniture-; testing-; Larix-leptolepis; joints-timber
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00587
UD: 9211
AN: F208274
DC: 1F066

SM: F-BN/Japan

97 of 788
TI: Improving the quality of cutting board materials to size during sawing with circular saws.
AU: Yakunin,-NK
AD: IPKlesprom, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1986., No. 11, 6-7; BLDSC.
PY: 1986
LA: Russian
AB: Working of wood-based boards with ready-finished faces has greatly reduced costs in the woodworking industry, while demanding greater care in cutting. A summary is presented of the various reasons for, and ways of preventing, 5 types of defect: zig-zag (wavy) kerf; vertical or horizontal deviations of the cut from the measured line; and damage to the surface at the entry or the exit of the saw blade.
DE: Saws-; circular-saws; Woodworking-; cutting-; Panels-; overlays-; processing-; Furniture-; manufacture-
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00993
UD: 9211
AN: F224822
DC: 1F075; 1F0431; 1F0661

98 of 788
TI: Markets for hardwood laminated-veneer-lumber.
AU: Hoover,-WL; Eckelman,-CA; Ringe,-JM; Youngquist,-JA
AD: Purdue Univ., West Lafayette, IN 47907, USA.
SO: Forest-Products-Journal. 1987., 37: 10, 57-62; 17 ref.
PY: 1987
LA: English
AB: The cost of furniture dimension parts produced from red oak LVL panels of 49 X 97 inches was compared with that of dimension parts produced from red oak lumber using lumber prices for the first quarter of 1982. The 'panel value' obtained was about $1000 per thousand bd ft. The most likely markets for LVL were those that require dimension parts at least 46 inches in length.
DE: Furniture-; raw-materials; Laminated-wood; Quercus-; uses-; Quercus-rubra; Marketing-; USA-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00982
UD: 9211
AN: F225446
DC: 1F072; 1F10; 1F0661
SM: F-P

99 of 788

TI: Rattan furniture manufacturing in Peninsular Malaysia.
AU: Choo,-KT
SO: RIC-Bulletin. 1984., 3: 3, 1-2.
PY: 1984
LA: English
DE: Canes-and-rattans; Furniture-; industry-; Malaysia-
GE: Malaysia-
PT: Numbered-Part
CI: title in Rattan: a bibliography [compiled by Kong-Ong, H.K.; Manokaran, N.] (1986) 304.
CAB: 1F Forest-Products-Abstracts 1988 011-01153
UD: 9211
AN: F230067
DC: 1F0661; 1F0934
SM: F-BN/Malaysia/Forestry Dep./Forest Res. Inst./Rattan Inform. Cent./Misc.(S)

100 of 788
TI: Processing of raw rattans in Peninsular Malaysia.
AU: Choo,-KT; Singh,-KD (Daljeet-Singh, K.); Daljeet-Singh,-K
AD: For. Res. Inst., Kepong, Malaysia.
SO: RIC-Bulletin. 1984., 3: 4, 2-3.
PY: 1984
LA: English
AB: A note on the technique of curing by heating the raw canes [Calamus manan etc.] in oil (diesel or diesel/coconut oil). The dried canes may be debarked or split to obtain peels and strips for weaving and binding.
DE: Canes-and-rattans; Calamus-manan; Furniture-; raw-materials; Malaysia-
GE: Malaysia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01198
UD: 9211
AN: F230075
DC: 1F0934; 1F0661
SM: F-P

101 of 788
TI: Manual on the production of rattan furniture.
AU: Cody,-DP
SO: 1983, New York, USA; UNIDO.
PY: 1983
LA: English
DE: Furniture-; books-; Canes-and-rattans
PT: Unnumbered-Whole
CI: Rattan: a bibliography [complied by Kong-Ong, H.K.; Manokaran, N.] (1986) 310.
CAB: 1F Forest-Products-Abstracts 1988 011-01042
UD: 9211
AN: F230105
DC: 1F0111; 1F0661; 1F0934

SM: F-BN/Malaysia/ Forestry Dep./Forest Res. Inst./Rattan Inform. Cent./Misc. (S)

102 of 788
TI: Manufacture of storage units from thin particleboard by the 'double fold' method.
OT: Herstellung von Behaltnismobeln aus dunnen Spanplatten nach dem Doppelfaltverfahren.
AU: Kucukov,-G (Kyuchukov, G.); Kyuchukov,-G
AD: Vissh Lesotekh. Inst., Sofia, Bulgaria.
SO: Holztechnologie. 1986., 27: 3, 118-120; 7 ref. BLDSC.
PY: 1986
LA: German
AB: A paper presented at a symposium on furniture manufacturing technology held in Dresden on 9-10 Dec. 1985. The 'fold method' was introduced as a materials-saving measure that allows use of overlay-coated thin (< 16 mm) particleboard for manufacture of carcass furniture with acceptable strength properties. In the method, one overlay remains intact (and eventually forms the outer surface of the finished product) and [triangular] segments are cut out from boards which are then folded over at 90 ° once (to give a mitred angle joint; a well-established method) or twice (the 'double-fold' method, giving a length of double board thickness). Improved strength properties of joints and furniture carcasses are reported for single- and (especially) double-folded veneer- or plastic-overlay coated 8- or 12-mm boards.
DE: Furniture-; raw-materials; testing-; Particleboards-; joints-timber; overlays-; uses-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01165
UD: 9211
AN: F233821
DC: 1F073; 1F0661; 1F0433

103 of 788
TI: Glulam elements for upholstered furniture frames.
OT: Elemente aus Schichtholz fur Polstermobelgestelle.
AU: Kapica,-L
AD: Agric. Acad. Poznan, Poland.
SO: Holztechnologie. 1986., 27: 3, 127-129; 8 ref. BLDSC.
PY: 1986
LA: German
LS: Russian, English
AB: Studies on bending strength of Scots pine glulam elements indicated that they can be used for furniture frames without enlargement of their cross-sectional dimensions beyond those used for solid wood. Three-layered glulam elements in which finger joints had been used as lengthening joints had bending strengths 75-95% that of solid wood. Use of butt joints is not recommended.
DE: Laminated-wood; Pinus-; joints-timber; strength-; uses-; Pinus-sylvestris; glued-joints; testing-; Furniture-; raw-materials
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1988 011-01158
UD: 9211
AN: F233848
DC: 1F072; 1F0661; 1F0433

104 of 788
TI: Aspects of using profiled milling cutters in woodworking.
OT: Aspecte ale folosirii frezelor profilate la taierea lemnului.
AU: Dogaru,-V; Rusu,-D
AD: Univ. Brasov, Romania.
SO: Industria-Lemnului. 1984., 35: 3, 144-148; 4 ref. BLDSC.
PY: 1984
LA: Romanian
LS: English, French, Spanish
AB: Various techniques for producing a range of moulded profiles for furniture are discussed, partly with reference to manufacturer's catalogues. The most generally recommended choice is the serrated cutter (held in a cutterblock by its serrated base) with a profiled cutting edge.
DE: Furniture-; manufacture-; Woodworking-; cutters-
GE: Romania-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01305
UD: 9211
AN: F237061
DC: 1F0435; 1F0434; 1F0661

105 of 788
TI: Moulded plywood [furniture] parts: a high-quality product. Theoretical and practical aspects of pressing variables and technology.
OT: Elemente mulate din furnire - un produs de calitate superioara. Aspecte teoretice si practice privind parametrii si tehnologia de presare.
AU: Marinescu,-D; Fernea,-V; Sfaca,-R
AD: ICPIL (Res. & Design Inst. Wood Ind.), Bucharest, Romania.
SO: Industria-Lemnului. 1984., 35: 4, 178-185; 5 ref. BLDSC.
PY: 1984
LA: Romanian
LS: English, French, Spanish
AB: The technology is described with special reference to presses (with curved platens or cauls) heated by high-frequency electric current (13.56 MHz) at Rimnicu Vilcea woodworking factory, Romania. Pressure and temp. were measured in plywood mouldings for 1-piece chair backs and legs, etc. during pressing. Pressure varied widely through the profile, being highest in zones where the external pressure acted ^W to the veneers. Temp. varied inversely with the total mass of the moulding.
DE: Bentwood-; Furniture-; manufacture-; Plywood-; Romania-
GE: Romania-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01540

UD: 9211
AN: F239960
DC: 1F0661; 1F072

106 of 788
TI: Sandwich structures for lightweight furniture.
OT: Structuri sandwich pentru mobilier de greutate redusa.
AU: Curtu,-I; Nastase,-V; Ciofoaia,-V; Draghiciu,-C
AD: Univ. Brasov, Romania.
SO: Industria-Lemnului. 1985., 36: 1, 29-36; 15 ref. BLDSC.
PY: 1985
LA: Romanian
LS: English, French, Russian
AB: A general account of the theory of panels with low-density cores and (briefly) their strength properties, and of the various types of cores (typically rectangular or hexagonal grilles of paper, cardboard, fibreboard or plywood, etc.), frames and face materials. Some new designs of sandwich panels are described.
DE: Furniture-; raw-materials; Panels-; composite-boards
GE: Romania-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01559
UD: 9211
AN: F239994
DC: 1F075; 1F0661

107 of 788
TI: Reducing formaldehyde emissions of particleboards.
OT: Anmerkungen zur Senkung der Formaldehydemission bei Spanplatten.
AU: Merker,-O; Bohme,-P; Kehr,-E
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1987., 28: 1, 4-6; 15 ref. BLDSC.
PY: 1987
LA: German
LS: Russian, English
AB: A report on studies (mainly in E. Germany) on reduced-formaldehyde panels for furniture manufacture, covering test methods, panel manufacture, effects of overlays and finishes etc.
DE: Particleboards-; manufacture-; overlays-; finishes-; Formaldehyde-; Furniture-; raw-materials; German-Democratic-Republic
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01426
UD: 9211
AN: F240011
DC: 1F028; 1F073

108 of 788

TI: Effect of loading on creep behaviour of solid wood and wood particle-based materials. 1. Tests under constant load.
OT: Untersuchungen zum Einfluss der Belastung auf das Kriechverhalten von Vollholz und Holzpartikelwerkstoffen. Teil 1: Konstantlastversuche.
AU: Schober,-B
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1987., 28: 1, 13-16; 14 ref. BLDSC.
PY: 1987
LA: German
LS: Russian, English
AB: Studies are reported on Scots pine solid wood, MDF, and particleboard with fine- or normal-particle surface layers. Tests were made under various constant loads (10% to up to 45% of maximum loading, for up to 42 days) in two controlled climates (20 ° C, 50 or 70% RH). Correction factors for load/climate effects were derived for predicting creep behaviour under loads usual in furniture (10-30% of max.). Load/creep proportional limit in MDF was reached at 20% of max. load, with progressive increases in creep at > 30%; in particleboard, proportional limit was reached at 30%, with progressive increases > 40%, especially at 70% RH. At 50% RH, both absolute and relative creep deformation increased with decreasing particle size; at 70% RH, moisture response of particleboards led to relatively greater creep effects than in MDF. Long-term creep behaviour is predicted, with extrapolated values to 140 days given.
DE: Wood-strength; Pinus-sylvestris; creep-; Moulded-products; strength-; moisture-; Particleboards-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01541
UD: 9211
AN: F240038
DC: 1F070; 1F0323

109 of 788
TI: Status and trends in process measurement technology in the wood industry.
OT: Stand und Tendenzen des Einsatzes der Prozessmesstechnik in der Holzindustrie.
AU: Niemz,-P; Kniest,-C
AD: TU Dresden, German Democratic Republic.
SO: Holztechnologie. 1987., 28: 1, 24-28; 16 ref. BLDSC.
PY: 1987
LA: German
LS: English, Russian
AB: A survey of automated methods for monitoring sawmilling processes, wood-based material manufacture and furniture manufacture. Critical areas are surface inspection, temp. measurement, dimension control and particle characterization.
DE: Sawmilling-; computer-techniques; Panels-; Furniture-; Measurement-; automation-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01420

UD: 9211
AN: F240062
DC: 1F0129; 1F0431; 1F0661; 1F070

110 of 788
TI: Computer-aided planning of optimal cutting-to-size of rectangular pieces.
OT: Optimale Zuschnittplanung mittels rechnergestutzter Zuschnittoptimierung von Rechteckformaten.
AU: Fleckner,-KD
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1987., 28: 1, 34-35; BLDSC.
PY: 1987
LA: German
AB: The program ZUOPT/M for customized cutting-to-size of panels is outlined. The program is designed to give savings of 1.5-5% in materials used in the E. German furniture industry.
DE: Panels-; computer-techniques; processing-; Furniture-; raw-materials; German-Democratic-Republic
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01421
UD: 9211
AN: F240070
DC: 1F0129; 1F0661; 1F070

111 of 788
TI: Timber and wood product use in furniture in south. east Queensland.
AU: Greve,-DM
AD: Div. Tech. Serv., Qld. Dep. For., Indooroopilly, Qld. 4068, Australia.
SO: Timber-Trends,-Queensland-Department-of-Forestry. 1987., No. 8, 6pp.
PY: 1987
LA: English
AB: Results are presented of a survey carried out between Dec. 1986 and Jan. 1987 investigating wood vol. consumed in various sawn timber and timber panel product categories by industry sector. The industries were classified as large ( ) 30 employees), medium (10-29) or small (up to 9).
DE: Australia-; forest-products-industries; furniture-; supply-balance; raw-materials; Timber-trade; domestic-trade
GE: Australia-; Queensland-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1988 011-01346
UD: 9211
AN: F242812
DC: 1F0661; 1F10; 1F0219
SM: F-P

112 of 788
TI: Developing multiple utilization of larch. Utilization of parallel laminated veneer (PLV) products made from thinned larch (II).
AU: Jo,-JM; Chung,-BJ; Lee,-YD; Kang,-YD; Chung,-DJ
AD: For. Res. Inst., Seoul, Korea Republic.
S O :
Research-Reports-of-the-Forest-Research-Institute,-Korea-Republic. 1982., No. 29, 125-176; 32 ref. En captions and tables.
PY: 1982
LA: Korean
LS: English
AB: The machinability and other mechanical properties of PLV samples were tested to determine suitability for use as furniture frames and structural lumber (e.g. building, door and window frames).
DE: Larix-; Doors-; Windows-; Laminated-wood; uses-; Furniture-; raw-materials; Structures-; testing-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01546
UD: 9211
AN: F245838
DC: 1F072
SM: F-BN/Korea

113 of 788
TI: New solutions to mechanization problems in the sanding of wood mouldings.
OT: Noi solutii de mecanizare a slefuirii elementelor profilate din lemn.
AU: Grecu,-V
AD: ICPIL, Bucharest, Romania.
SO: Industria-Lemnului. 1985., 36: 3, 142-143; 5 ref. BLDSC.
PY: 1985
LA: Romanian
LS: English, French, Russian
AB: The device described, which simulates the action of manual sanding, consists of a disc bearing radiating strips of old sanding belts interspersed with brushes to increase their rigidity. The perimeter of the rotating disc sands down the moulding without changing its profile. The belts are wound in a spiral inside the disc from which they can be pulled out from time to time. The process has achieved a 66% reduction of the labour force in this operation during trials in a furniture factory in Romania, as well as the recovery of used sanding belts.
DE: Sanding-; Planing-; Furniture-; manufacture-; Romania-
GE: Romania-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01511
UD: 9211
AN: F246095
DC: 1F0434; 1F0435; 1F0661

114 of 788
TI: Invention in the field of machines and equipment for the wood industry in Poland.
OT: Das Erfindungswesen im Bereich der Maschinen und Ausrustungen der Holzindustrie der VRP.
AU: Kraszewski,-JM; Ilnicki,-W
AD: Fac. Wood Technol., Warsaw Agric. Univ., 02-528 Warsaw, Poland.
S 0 :
Annals-of-Warsaw-Agricultural-University-SGGW-AR,-Forestry-and-Wood-Technology. 1986., No. 33, 119-128; 10 ref.
PY: 1986
LA: German
LS: English, Polish
AB: Patents granted during 1945-79, amounting to 672 or 0.8% of all Polish patents over the period, are analysed with regard to year of publication, number of foreign patentees, type of affiliation (industrial, research or administrative), commercial utilization (limited data) and classification by type of process and industry (including wood-based materials). The number of patents increased rapidly after 1965, with the furniture industry becoming the most active in the late 1970s. About 39% of the patents were licensed compared with 50% of all patents, although it is noted that many of these were used to a very limited extent.
DE: Forest-products-industries; patents-; equipment-; machinery-; Woodworking-; Poland-; Furniture-; industry-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01625
UD: 9211
AN: F250181
DC: 1F012; 1F0435; 1F0661; 1F070; 1F10
SM: F-BN/Poland

115 of 788
TI: Studies on the end-use development of lesser-known tropical timber. (III) Properties and utilization of five lesser-known species grown in Kapuluk District, Papua New Guinea.
CA: Korea Republic, Working Group on Lesser-Known Tropical Timber.
AD: For. Res. Inst., Seoul, Korea Republic.
S 0 :
Research-Reports-of-the-Forest-Research-Institute,-Korea-Republic. 1984., No. 31, 86-105; 19 ref. En captions and tables.
PY: 1984
LA: Korean
LS: English
AB: Anatomy, chemical, physical, mechanical, drying and working properties, and pulp, veneer, plywood and charcoal manufacture etc. were examined. Black bean (Castanospermum australe) was found to be suitable for veneers and furniture; Campnosperma brevipetiolata for furniture, plywood, packaging, pulp and particleboard; New Guinea walnut (Dracontomelon mangiferum) for a wide range of uses such as veneers, furniture, plywood, interior trim and light frames;

quandong (Elaeocarpus novoguineensis) for plywood, particleboard, furniture and light frames and fibreboard; and water gum (Syzygium buettnerianum) for heavy construction, flooring, charcoal and fibreboard.
DE: Castanospermum-australe; Campnosperma-brevipetiolata; Dracontomelon-mangiferum; Elaeocarpus-novoguineensis; Syzygium-buettnerianum; Wood-anatomy; Wood-properties; Wood-utilization; Floors-; Veneers-; raw-materials; Castanospermum-; Dracontomelon-; Furniture-; Particleboards-; Campnosperma-; Elaeocarpus-; Fibreboards-; Syzygium-; Pulping-; Plywood-; Charcoal-
GE: Papua-New-Guinea
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01753
UD: 9211
AN: F251870
DC: 1F060; 1F031; 1F032; 1F0661; 1F071; 1F072; 1F073; 1F080
SM: F-BN/Korea

116 of 788
TI: Use of polycrystalline diamond tools for wood-based material and plastic processing.
OT: Einsatz von PKD-Werkzeugen fur die Holzwerkstoff- und Kunststoff-Bearbeitung.
AU: Heimbrand,-E
AD: Firma Ledermann GmbH, Horb, German Federal Republic.
SO: Holztechnologie. 1987., 28: 4, 173-176; Presented at the 7th Wood technology/furniture symposium, held at Dresden, 5-6 March 1987. BLDS.
PY: 1987
LA: German
DE: Saws-; teeth-; Woodworking-; cutters-; Conferences-; Wood-Technology/Furniture-Symposium
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01720
UD: 9211
AN: F253610
DC: 1F0435

117 of 788
TI: Interactions between raw material supply and quality of particleboards.
OT: Wechselwirkungen von Rohstoffbereitstellung und Qualitat der Spanplatten.
AU: Neusser,-H
AD: Austrian Timber Res. Inst., Vienna, Austria.
SO: Holztechnologie. 1987., 28: 4, 180-182; 14 ref. BLDSC.
PY: 1987
LA: German
AB: A brief review of recent studies, presented at the 7th Wood technology/furniture symposium, held at Dresden on 5-6 March 1987. Results indicate the general suitability of low-grade materials,

i.e. (sifted) whole-tree chips, wood from trees killed by dieback, etc. for particleboard manufacture.
DE: Particleboards-; raw-materials; Wood-chips; whole-tree-chips; Conferences-; Wood-Technology/Furniture-Symposium
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01771
UD: 9211
AN: F253628
DC: 1F073; 1F092

118 of 788
TI: Studies on the wood properties of native hardwoods of major importance. (II) Wood properties of 3 species of the genus Carpinus.
CA: Korea Republic, Research Team on the Wood Properties of Native Hardwoods.
AD: For. Res. Inst., Seoul, Korea Republic.
SO: Research-Reports-of-the-Forest-Research-Institute,-Korea-Republic. 1985., No. 32, 88-110; 27 ref. En captions and tables.
PY: 1985
LA: Korean
LS: English
AB: Studies of anatomical, physical, mechanical, chemical and processing characteristics, board manufacture and pulping indicated that C. laxiflora, C. tschonoskii, and C. cordata were suitable for making furniture, bobbins and shuttles, musical instruments, toys, tools and mushroom cultivation. C. laxiflora and C. tschonoskii are also considered to be suitable for sports goods.
DE: Carpinus-laxiflora; Carpinus-tschonoskii; Carpinus-cordata; Wood-anatomy; Wood-properties; Furniture-; raw-materials; Wood-products; Sports-equipment; Tools-; Musical-instruments; Edible-fungi
GE: Korea-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01662
UD: 9211
AN: F254357
DC: 1F032; 1F031; 1F0661; 1F065; 1F0931; 1F0933
SM: F-BN/Korea

119 of 788
TI: Bending rigidity of sandwich boards.
OT: Cercetari privind rigiditatea la incovoiere a placilor sandwich.
AU: Nastase,-V; Curtu,-I; Ciofoaia,-V; Draghiciu,-C
AD: Univ. Brasov, Romania.
SO: Industria-Lemnului. 1985., 36: 4, 173-176; 17 ref., 2 graphs. BLDSC.
PY: 1985
LA: Romanian
LS: English, French, Russian

AB: Deflection in bending under a load applied at mid-span was measured on sandwich boards 16-22.4 mm thick with various face, core and frame materials. Rigidity was always higher than that of particleboards of the same thickness and much higher density. A theoretical treatment and a coding system for board types are included. Wider use of sandwich boards is recommended for box-type furniture: a general purpose board type consists of faces of beech or poplar plywood, cores of cardboard rings or hardboard (or plywood) gratings, and frames of softwood lumber or particleboard.
DE: Panels-; composite-boards; strength-; Romania-; Fagus-sylvatica; plywood-; Populus-; Furniture-; raw-materials
GE: Romania-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01971
UD: 9211
AN: F257011
DC: 1F075; 1F0661; 1F072

120 of 788
TI: Design and specification of hardwood laminated-veneer-lumber for furniture applications.
AU: Hoover,-WL; Eckelman,-CA; Ringe,-JM; Youngquist,-JA
AD: Purdue Univ., West Lafayette, IN 47907, USA.
SO: Forest-Products-Journal. 1988., 38: 1, 31-34; 10 ref.
PY: 1988
LA: English
AB: The third is a series of papers that demonstrates the application of empirical findings reported earlier to the design and specification of LVL for representative furniture parts. Design loads for the front rail of a sofa and the top member of an arm assembly for a sofa are compared with the max. load predicted by the previously determined model. Five-ply yellow poplar was selected to represent an inexpensive LVL type. The limiting mechanical property for furniture applications appears to be flatwise bending strength.
DE: Laminated-wood; Liriodendron-; uses-; strength-; Furniture-; raw-materials
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01955
UD: 9211
AN: F257658
DC: 1F072; 1F0661
SM: F-P

121 of 788
TI: A fraction of beech wood mutagenic in the Salmonella/mammalian microsome assay.
AU: Mohtashamipur,-E; Norpoth,-K; Hallerberg,-B
AD: Inst. Hygiene & Occup. Med., Univ. Med. Cent., Essen Univ., 4300 Essen, German Federal Republic.

International-Archives-of-Occupational-and-Environmental-Health. 1986., 58: 3, 227-234; 34 ref. BLDSC.
PY: 1986
LA: English
AB: Results indicated that beech wood-dust contains mutagenic constituents that may contribute to its assumed carcinogenic effects among woodworkers in the furniture industry.
DE: Health-; Wood-dust; Furniture-; industry-; Fagus-sylvatica; wood-properties; toxicity-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-01823
UD: 9211
AN: F258670
DC: 1F027; 1F066

122 of 788
TI: Study on the strength of furniture joints.
AU: Huang,-YS; Ma,-TP; Tsou,-TC
SO: Bulletin,-Taiwan-Forestry-Research-Institute. 1985., No. 439, 12pp.; 4 ref.
PY: 1985
LA: Chinese
LS: English
AB: Bending strength and moment rotation characteristics were recorded for T-shaped, two- or three-pin and round tenon joints constructed using Hevea brasiliensis wood, grooved sugar maple dowels and BASF powder urea-formaldehyde, Titebond polyvinylacetate or local liquid AB glue.
DE: Hevea-brasiliensis; Acer-saccharum; Furniture-; testing-; Joints-timber; glued-joints; dowelled-joints
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02166
UD: 9211
AN: F260470
DC: 1F066; 1F0433
SM: F-P

123 of 788
TI: A furniture parts classification and coding system.
AU: Culbreth,-CT
AD: North Carolina State Univ., Box 7906, Raleigh, NC 27695, USA.
SO: Forest-Products-Journal. 1988., 38: 2, 19-24; 13 ref.
PY: 1988
LA: English
AB: A classification and coding system specific to furniture and other wood parts was developed to facilitate computer-aided manufacturing. The system was designed to describe and encode the geometry (size, shape and configuration), form features (tenons, mortises, bored holes, grooves, etc.) and materials characterizing wood furniture parts.
DE: Furniture-; manufacture-; classification-; USA-
GE: USA-

PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02169
UD: 9211
AN: F264549
DC: 1F0661; 1F0129
SM: F-P

124 of 788
TI: Technology and equipment of wood conversion industries: an inter-university collection of scientific papers.
OT: Tekhnologiya i oborudovanie derevoobrabatyvayushchikh proizvodstv: mezhvuzovskii sbornik nauchnykh trudov.
CA: USSR, Leningradskaya Lesotekhnicheskaya Akademiya imeni S. M. Kirova.
AD: Leningrad Kirov Acad. Wood Technol., Leningrad, USSR.
SO: 1986, 124 pp. Leningrad, USSR.
PY: 1986
LA: Russian
AB: Results of research on sawmilling and the manufacture of plywood, particleboard, glued wood structures and furniture.
DE: Forest-products-industries; books-; research-; USSR-; Sawmilling-; Laminated-wood; Particleboards-; Plywood-; Structures-; Furniture-; manufacture-
GE: USSR-
PT: Unnumbered-Whole
AV: 1.50 r
CI: notice in Derevoobrabatyvayushchaya Promyshlennost' (1987) No. 7, 28. Ru. BLDSC.
CAB: 1F Forest-Products-Abstracts 1988 011-02009
UD: 9211
AN: F264727
DC: 1F0111; 1F025; 1F043; 1F0661; 1F070

125 of 788
TI: Maintenance of woodworking equipment.
OT: Remont derevoobrabatyvayushchego oborudovaniya.
AU: Tarasov,-VM; Ezerskii,-SN; Bondin,-NA
SO: 1986, Ed. 2, 240 pp. Moscow, USSR; Lesnaya Promyshlennost'.
PY: 1986
LA: Russian
AB: A general guide to the maintenance of 302 makes of equipment in 20 categories. The 10 chapters deal with: the organization and planning of preventive maintenance in woodworking enterprises [including sawmills] and the classification of equipment (including machines used in furniture and match manufacture); technology of maintenance and isolation of components; repair of metal components; methods of welding and cutting; maintenance of hydraulic and pneumatic systems; automatic production lines; reassembly of components; painting of equipment; mechanization of maintenance work; and normal consumption of materials and spare parts.
DE: Mechanization-; books-; Woodworking-; USSR-; Sawmilling-;

equipment-; machinery-; Furniture-; manufacture-; Match-manufacture; Saws-; maintenance-
GE: USSR-
PT: Unnumbered-Whole
CI: review in Derevoobrabatyvayushchaya Promyshlennost' (1987) No. 7, 29. Ru. BLDSC.
CAB: 1F Forest-Products-Abstracts 1988 011-02014
UD: 9211
AN: F264778
DC: 1F0111; 1F0435

126 of 788
TI: Rigidity of joints capable of disassembly.
OT: Cercetari privind rigiditatea imbinarilor demontabile.
AU: Curtu,-I; Benedek,-M; Moisi,-D
AD: Univ. Brasov, Romania.
SO: Industria-Lemnului. 1987., 38: 1, 36-39; 14 ref.
PY: 1987
LA: Romanian
LS: English, French, Russian
AB: Box-type corner joints were made between 2 rectangular pieces of particleboard and tested by applying torque to the axis of the joint. The joints were fastened with 5 types of plastic or screwed connectors or with glued dowels. The decouplable joints were stronger than the dowelled joints in nearly all cases; the strongest was fastened with a bolt. The strength of the dowelled joints was adequate only when the corner was bent inwards.
DE: Joints-timber; bolted-joints; dowelled-joints; testing-; Particleboards-; Furniture-; manufacture-
GE: Romania-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02170
UD: 9211
AN: F264794
DC: 1F0661; 1F0433; 1F073
SM: F-P

127 of 788
TI: Technology of wood products.
OT: Tehnologia produselor din lemn.
AU: Brenndorfer,-D; Zlate,-G
AD: Univ. Brasov, Romania.
SO: 1986, 388 pp.; 42 ref. Brasov, Romania; Reprografia Universitatii din Brasov.
PY: 1986
LA: Romanian
AB: A university textbook with 6 chapters, dealing with: the development, structure and future prospects of the wood industry in Romania; sawmilling technology; manufacture of veneer, plywood and laminated wood; particleboard; fibreboard; and furniture and other finished wood products.
DE: Forest-products-industries; books-; Romania-; Furniture-;

manufacture-; Wood-products
GE: Romania-
PT: Unnumbered-Whole
CI: review in Industria Lemnului (1987) 165-166. Ro.
CAB: 1F Forest-Products-Abstracts 1988 011-02017
UD: 9211
AN: F264905
DC: 1F0111; 1F0214; 1F043; 1F065; 1F066; 1F070
SM: Not available

128 of 788
TI: Feasibility of producing China fir (Cunninghamia lanceolata) press-lam and using it as a stock for making furniture.
AU: Jai,-SY; Hwang,-CY; Lee,-MC
SO: Bulletin,-Taiwan-Forestry-Research-Institute. 1985., No. 449, 11 pp.; 13 ref. En captions and tables.
PY: 1985
LA: Chinese
LS: English
DE: Cunninghamia-lanceolata; Laminated-wood; Cunninghamia-; uses-; manufacture-; Furniture-; raw-materials
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1988 011-02171
UD: 9211
AN: F265901
DC: 1F0661; 1F072
SM: F-P

129 of 788
TI: System 6 alternatives: an economic analysis.
AU: Hansen,-BR; Reynolds,-HW
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S O :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1984., No. NE-551, 14 pp.; 7 ref.
PY: 1984
LA: English
AB: Three System 6 mill-size options were designed and evaluated to determine their overall economic potential for producing standard-size hardwood 'blanks' (panels of defect-free wood that are edge glued to standard widths) for furniture and kitchen cabinet manufacture.
DE: Sawmilling-; outturn-; economics-; log-breakdown-methods; Furniture-; raw-materials; Panels-; processing-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1988 011-02678
UD: 9211
AN: F267211
DC: 1F10; 1F0431; 1F0661
SM: F-BN/USA

130 of 788
TI: System 6: a pricing strategy for long blanks.
AU: Reynolds,-HW; Hansen,-BG
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1986., No. NE-573, 14 pp.; 9 ref.
PY: 1986
LA: English
AB: When the demand for long (> 50 inches) 'blanks' (panels of defect-free wood that are edge glued to standard widths) for furniture from System 6 mills exceeds 15% of the total square footage required, the yields of specified 'blanks' and earnings will decrease. A computerized procedure is described for determining the surcharge on long 'blanks' when they comprise > 15% of production, in order to keep constant or improve earnings.
DE: Furniture-; computer-techniques; raw-materials; economics-; Sawmilling-; log-breakdown-methods; Panels-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02679
UD: 9211
AN: F267785
DC: 1F10; 1F0661; 1F0129; 1F0431
SM: F-BN/USA

131 of 788
TI: Making black cherry blanks from System 6.
AU: Reynolds,-HW; Hansen,-BG
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1986., No. NE-574, 10 pp.; 9 ref.
PY: 1986
LA: English
AB: An account is given of a study to determine the possibility and economics of using small-diam., low-grade black cherry [Prunus serotina] from Pennsylvania, Maryland and West Virginia as raw material for System 6 to make high-quality furniture 'blanks' (panels of defect-free wood that are edge glued to standard widths). By varying rough mill procedures, differences in board quality and cutting bill requirements were accomodated while keeping yields high. Cherry from Pennsylvania and Maryland gave similar yields with 39% return on a $2.2 million 10-yr investment. Cherry from West Virginia was of better quality, giving higher yields and a 50.3% return on investment. Gum streak was not a problem.
DE: Prunus-serotina; Furniture-; USA-; Sawmilling-; Prunus-; log-breakdown-methods; economics-; Panels-; processing-
GE: USA-; Pennsylvania-; Maryland-; West-Virginia
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02680
UD: 9211
AN: F267793

DC: 1F10; 1F0661; 1F0431
SM: F-BN/USA

132 of 788
TI: Reduce dimension costs by using WALNUT.
AU: Martens,-DG
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
SO: Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1986., No. NE-586, 10 pp.
PY: 1986
LA: English
AB: A computer program is described that determines the least-cost mix of black walnut lumber grades required to produce a given dimension cutting order. Through linear programming techniques, WALNUT correlates the cost associated with each grade of lumber with the predicted yields of each cutting size obtainable from that grade to arrive at the combination with the lowest cost. The program can quickly be adapted to fit most furniture rough mills and dimension manufacturing operations.
DE: Sawmilling-; Juglans-; outturn-; computer-techniques; Furniture-; raw-materials; Juglans-nigra
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02094
UD: 9211
AN: F267874
DC: 1F0431; 1F0661; 1F0129
SM: F-BN/USA

133 of 788
TI: Time study on machining process of wooden furniture factory.
AU: Wang,-EUH; Liu,-CT
AD: For. Dep., National Chung Hsing Univ., Taiwan.
SO: Forest-Products-Industries. 1988., 7: 1, 79-96; 4 ref. En captions.
PY: 1988
LA: Chinese
LS: English
AB: A study of cycle time, percentage time working and machine efficiency in rip sawing, cut-off sawing, moulding, band sawing and shaping operations using Quercus alba, Q. rubra, Hevea brasiliensis and Gonystylus bancanus.
DE: Furniture-; industry-; Quercus-rubra; Sawmilling-; work-studies; Quercus-alba; Hevea-brasiliensis; Gonystylus-bancanus
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02172
UD: 9211
AN: F269702
DC: 1F0661; 1F0431; 1F027
SM: F-P

134 of 788
TI: The noise levels of the working environment of main forest products industries in Taiwan.
AU: Peng,-TH; Wu,-SC
AD: National Taiwan Univ., Taiwan.
SO: Forest-Products-Industries. 1987., 6: 3, 23-36; 9 ref. En captions and tables.
PY: 1987
LA: Chinese
LS: English
AB: A study of 3 medium-sized industries showed that sawmilling was the noisiest, followed by furniture making and plywood manufacture. In all industries, noise exceeded 85 dBA.
DE: Noise-; Sawmilling-; Taiwan-; Furniture-; industry-; Plywood-
GE: Taiwan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02300
UD: 9211
AN: F269974
DC: 1F027; 1F0431; 1F066
SM: F-P

135 of 788
TI: Glossary of terms used in furniture - parts; - style.
SO: Forest-Products-Industries. 1987., 6: 3, 112-124; 125-131; En captions.
PY: 1987
LA: Chinese
LS: English
DE: Glossaries-; Furniture-; terminologies-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02553
UD: 9211
AN: F269982
DC: 1F0661; 1F0117
SM: F-P

136 of 788
TI: Low-cost opportunity for small-scale manufacture of hardwood blanks.
AU: Hansen,-BG; Araman,-PA
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
SO: Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1985., No. NE-559, 6 pp.; 7 ref.
PY: 1985
LA: English
AB: An economic analysis was conducted of the small-scale manufacture by conventional processing of furniture and cabinet 'blanks' [panels of defect-free wood that are edge glued to standard widths] from lumber of northern red oak, black cherry [Prunus serotina], hard maple [Acer saccharum] and yellow poplar.

Assuming a tax rate of 46%, returns of 31-38% were obtained.
DE: Furniture-; raw-materials; Prunus-serotina; Acer-saccharum; Liriodendron-tulipifera; Sawmilling-; Prunus-; Acer-; Liriodendron-; economics-; log-breakdown-methods; Panels-; processing-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02682
UD: 9211
AN: F270220
DC: 1F10; 1F0431; 1F0661
SM: F-BN/USA

137 of 788
TI: OPTIGRAMI: Optimum lumber grade mix program for hardwood dimension parts.
AU: Martens,-DG; Nevel,-RL, Jr.
AD: NEFES, USDA For. Serv., Princeton, WV 24740, USA.
S O :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1985., No. NE-563, 10 pp.; 1 ref.
PY: 1985
LA: English
AB: A description is given of the program and examples show its use to improve efficiency of lumber use in the furniture industry. The program can be obtained from the Northeastern Forest Experiment Station.
DE: Furniture-; industry-; computer-techniques
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02281
UD: 9211
AN: F270263
DC: 1F0129; 1F0661
SM: F-BN/USA

138 of 788
TI: Produce yellow-poplar furniture dimension at minimum cost by using YELLOPOP.
AU: Martens,-DG
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S O :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1986., No. NE-RP-592, 15 pp.; 3 ref.
PY: 1986
LA: English
AB: A description is given of the program for determining the least-cost combination of lumber grades required to produce a given cutting order of dimension parts. If that combination is not available, YELLOPOP can be used to determine the next best alternative.
DE: Liriodendron-tulipifera; Furniture-; computer-techniques; raw-materials

PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-02282
UD: 9211
AN: F270387
DC: 1F0129; 1F0661
SM: F-BN/USA

139 of 788
TI: Material usage trends in the wood household furniture industry [in the USA].
AU: Luppold,-WG
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
SO: Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1987., No. NE-RP-600, 10 pp.; 5 ref.
PY: 1987
LA: English
DE: Furniture-; industry-; raw-materials; USA-
GE: USA-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1988 011-02554
UD: 9211
AN: F270468
DC: 1F0661; 1F10
SM: F-BN/USA

140 of 788
TI: Development of wood-based materials for special uses in furniture manufacture.
OT: Zur Entwicklung von Holzwerkstoffen fur spezielle Einsatzgebiete im Mobelbau.
AU: Kehr,-E; Jensen,-U
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1987., 28: 6, 284-289; 21 ref. Presented at the 7th Wood technology/furniture symposium, held at Dresden, 5-6 March 1987.
PY: 1987
LA: German
LS: Russian, English
AB: A discussion of developments in the period 1971-86. Topics covered include suitability of particleboard for overlay lamination or soft-forming, and use of MDF. Marked reductions in formaldehyde emission values for MDF since 1983 are noted.
DE: Furniture-; raw-materials; Fibreboards-; MDF-; overlays-; uses-; Formaldehyde-; Particleboards-; Conferences-; Wood-Technology/Furniture-Symposium
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-00128
UD: 9211
AN: F284370
DC: 1F070; 1F0661
SM: BLDSC

141 of 788
TI: Elasto-mechanical behaviour of decorative overlay-coated wood-based materials at the surface boundary.
OT: Uber das elastomechanische Verhalten dekorfoliebeschichteter Holzwerkstoffe im Grenzbereich Oberflache.
AU: Bohme,-P; Knitsch,-HW
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1987., 28: 6, 290-293; 3 ref. Presented at the 7th Wood technology/furniture symposium, held at Dresden, 5-6 March 1987.
PY: 1987
LA: German
LS: Russian, English
AB: Causes are outlined of dent, scratch etc. formation during overlay application and subsequent processing of overlay-coated panels. A method is described for measurement of elasto-mechanical behaviour during dent formation in overlays and coated panels. Effects of panel, adhesive and overlay type were analysed. The (fibre-based) surface of MDF boards was more sensitive to pressure than that of (particle-based) particleboard. In overlay-coated boards, use of thermoplastic adhesive (PVA) led to greater susceptibility to pressure than use of thermosetting adhesive (UF resin). Decorative overlays based on UF resin were least sensitive, and those based on unsaturated polyester resin most sensitive, to pressure. Polyester-based overlays and overlays containing plasticizer additives were very susceptible to temp. and moisture effects.
DE: Overlays-; Fibreboards-; MDF-; properties-; Particleboards-; Adhesives-; Conferences-; Wood-Technology/Furniture-Symposium
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-00138
UD: 9211
AN: F284388
DC: 1F075; 1F073; 1F074; 1F079
SM: BLDSC

142 of 788
TI: A new statistical measure to evaluate the surface quality of particleboards.
OT: Neuer statistischer Beurteilungsmassstab der Oberflachenqualitat von Spanplatten.
AU: Urbanik,-E
AD: Inst. Wood Tech., Poznan, Poland.
SO: Holztechnologie. 1987., 28: 6, 298-301; 10 ref. Presented at the 7th Wood technology/furniture symposium, held at Dresden, 5-6 March 1987.
PY: 1987
LA: German
LS: Russian, English
AB: A theoretical discussion, proposing a method for evaluation of data that can be used to predict the behaviour of board surfaces, e.g. during overlay application. Data collected over a grid of

measurement points is used to describe board surface roughness either (1) directly, or (2) indirectly (by evaluating points of contact with roller surface).
DE: Particleboards-; properties-; overlays-; methodology-; Conferences-; Wood-Technology/Furniture-Symposium
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-00009
UD: 9211
AN: F284400
DC: 1F0127; 1F073
SM: BLDSC

143 of 788
TI: Test methods as a basis for reduction of formaldehyde emissions from furniture.
OT: Prufmethoden als Grundlagen der Formaldehydabgabeminderung bei Mobel.
AU: Marutzky,-R
AD: WKI, Brunswick, German Federal Republic.
SO: Holztechnologie. 1987., 28: 6, 301-304; 19 ref. Presented at the 7th Wood technology/furniture symposium, held at Dresden, 5-6 March 1987.
PY: 1987
LA: German
AB: A review, with special reference to studies on particleboard. The results of test chamber studies on finished furniture and furniture elements can be supplemented by data from various simpler laboratory tests on emissions from materials used in furniture manufacture.
DE: Formaldehyde-; particleboards-; methodology-; Furniture-; raw-materials; testing-; Conferences-; Wood-Technology/Furniture-Symposium
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1989 012-00024
UD: 9211
AN: F284418
DC: 1F028; 1F0661; 1F073; 1F0125
SM: BLDSC

144 of 788
TI: The wooden furniture industry in Peninsular Malaysia.
AU: Tong,-KH
AD: Malaysian Timber Industry Board, Kuala Lumpur, Malaysia.
SO: Malaysian-Forester. 1984, publ. 1986., 47: 1/2, 159-166; 2 ref.
PY: 1984
LA: English
AB: Statistics are presented on enterprise structure in 1982, furniture exports in 1978-82, imports in 1971-82 and estimated domestic consumption (with projections up to 1995). Although domestic production accounts for over 90% of consumption, there are signs that the domestic industry is becoming less competitive owing to the generally small size of enterprises and weaknesses in

design, finish and marketing.
DE: Furniture-; economics-; industry-; Malaysia-
GE: Malaysia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00580
UD: 9211
AN: F142346
DC: 1F10; 1F0661
SM: F-P

145 of 788
TI: Properties and utilisation of exotic speciality timbers grown in New Zealand. Part II: Australian blackwood, Acacia melanoxylon R. Br.
AU: Haslett,-AN
AD: Wood Technol Div., For. Res. Inst., New Zealand For. Serv., Private Bag, Rotorua, New Zealand.
SO: FRI-Bulletin,-Forest-Research-Institute,-New-Zealand. 1986., No. 119, 12pp.
PY: 1986
LA: English
AB: Timber from New Zealand-grown A. melanoxylon resembles that grown in Australia in appearance and wood properties. Glue-line failure can occur because of dimensional instability. Its attractive appearance, fairly even texture, hardness and good machining properties make A. melanoxylon suitable for high-quality furniture- and cabinet-making and veneer.
DE: Acacia-melanoxylon; New-Zealand; Wood-properties; Furniture-; raw-materials; Veneers-; Acacia-
GE: New-Zealand
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00774
UD: 9211
AN: F147178
DC: 1F032; 1F0661; 1F071
SM: F-BN/New Zealand/Forest Service

146 of 788
TI: Properties and utilisation of exotic speciality timbers grown in New Zealand. Part IV: Black walnut, Juglans nigra L.
AU: Haslett,-AN
AD: Wood Technol. Div., For. Res. Inst., New Zealand For. Serv., Private Bag, Rotorua, New Zealand.
SO: FRI-Bulletin,-Forest-Research-Institute,-New-Zealand. 1986., No. 119, 12pp.
PY: 1986
LA: English
AB: J. nigra wood has attractive figure and colour, medium density, low shrinkage and is easy to work, but requires careful drying. It is suitable for a range of high-quality uses including veneer, furniture, gun stocks and turnery.
DE: Juglans-nigra; Turnery-; Sports-equipment; New-Zealand;

Wood-properties; Furniture-; raw-materials; Veneers-; Juglans-
GE: New-Zealand
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00776
UD: 9211
AN: F147194
DC: 1F032; 1F0661; 1F065; 1F071
SM: F-BN/New Zealand/Forest Service

147 of 788
TI: Standard blanks: a good value-added opportunity. The economics of System 6.
AU: Gatchell,-C (J); Hansen,-BG; Gatchell,-CJ
SO: Northern-Logger-and-Timber-Processor. 1986., 34: 10, 26-27, 30-31, 45; 9 ref. BL.
PY: 1986
LA: English
AB: It is shown that System 6 provides an excellent opportunity to add value to small-diam. or low-grade lumber through the manufacture of standard-size blanks or rough dimension for the furniture industry.
DE: Sawmilling-; economics-; Furniture-; raw-materials
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00895
UD: 9211
AN: F149553
DC: 1F072; 1F0661; 1F10

148 of 788
TI: End-jointing of bent plywood components with mini-finger joints.
AU: Kostrikov,-PV; Kokoshko,-AF
AD: Kishinev Polytech. Inst., Kishinev, Moldavian SSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1985., No. 10, 5-7; BL.
PY: 1985
LA: Russian
AB: Birch plywood (as used in chair frames) was finger-jointed between straight sections. Fingers cut parallel to the face made stronger joints than fingers cut ^W to the face, when tested in static bending parallel or ^W to the face. The shortest fingers (5 mm long, 1.75 mm pitch) made the strongest joints. Joint strength increased with addition of PVA dispersion to the UF adhesive, 100% PVA dispersion adhesive giving the best results. The opt. pressure for joining was 8 MPa. Joint positions for various chair designs, avoiding the bent sections, are shown in diagrams.
DE: Bentwood-; Furniture-; manufacture-; Joints-timber; glued-joints; Plywood-; processing-; uses-; Betula-alba
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00896
UD: 9211

AN: F150411
DC: 1F072; 1F0433; 1F0661

149 of 788
TI: Reducing the material content of carcass furniture.
AU: Gromov,-SA; Makeev,-VA
AD: VPKTIM, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1985., No. 10, 10-11; BL.
PY: 1985
LA: Russian
AB: The use of particleboards 10-14 mm thick instead of the usual 16-mm board is discussed with reference to the USSR. Furniture manufacture with 14-mm boards presents few problems and saves a material cost of 12 r per m3 of board. Boards 10-12 mm thick give much larger savings but require new furniture designs which are being developed. Special fittings for corner joints and door hinges in thin boards are described.
DE: Particleboards-; uses-; USSR-; furniture-; manufacture-; raw-materials
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00892
UD: 9211
AN: F150438
DC: 1F0661; 1F073

150 of 788
TI: An input/output model for material requirements planning and cost allocation in wood products assembly.
AU: Carino,-HF
AD: Sch. For., Alabama Agric. Exp. Sta., Auburn Univ., Auburn, AL 36849, USA.
SO: Forest-Products-Journal. 1986., 36: 11-12, 51-55; 8 ref.
PY: 1986
LA: English
AB: A mathematical model is described for determining the material input requirements to satisfy a given production plan or product sales forecast and for allocating the costs of these inputs to the outputs in wood-using industries (best exemplified by the furniture industry). A computer program which embodies the model is briefly described.
DE: Furniture-; simulation-; industry-; economics-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-01207
UD: 9211
AN: F160239
DC: 1F066; 1F0128; 1F10
SM: F-P

151 of 788

TI: Rethinking the design of the furniture rough mill.
AU: Gatchell,-CJ
AD: NEFES, USDA For. Serv., Princeton, WV 24740, USA.
SO: Forest-Products-Journal. 1987., 37: 3, 8-14; 21 ref.
PY: 1987
LA: English
AB: The operation of a cross-cut first rough mill is discussed with emphasis on the effects of lumber quality, cutting bills and operator efficiency on yields of furniture blanks. Adding a rip-first option is recommended for increasing the use of lower grades of lumber. A rough mill is described that uses log-run lumber (No. 2 Common or Better) to provide sufficient long lengths to satisfy the needs of the furniture and cabinet industries as long as gluelines are acceptable.
DE: Sawmilling-; log-breakdown-methods; outturn-; log-grade; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-01281
UD: 9211
AN: F162711
DC: 1F0431; 1F046; 1F066
SM: F-P

152 of 788
TI: Compressed sliced veneer in furniture manufacture.
AU: Kirillov,-AN; Glotov,-AI
AD: For. Eng. Inst. (MLTI), Moscow, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1985., No. 12, 5; BL.
PY: 1985
LA: Russian
AB: Veneers of ash [Fraxinus excelsior] or mahogany were rolled at 45-65 MPa pressure, reducing their thickness by 30-40%. The duration of hot-press gluing to the face of board components was consequently reduced by 20%. Rolling also improved surface quality so that only one sanding was required and lacquer consumption was reduced by 20-35%. Savings due to veneer rolling are estimated at 0.15-0.20 r/m2.
DE: Veneering-; Paints-; Sanding-; Fraxinus-excelsior; Furniture-; manufacture-
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-01509
UD: 9211
AN: F166016
DC: 1F071; 1F0434; 1F0661; 1F055

153 of 788
TI: Strength of faced particleboards in compression parallel to the face.
AU: Bartashevich,-AA; Bogomazov,-VV
AD: Byelorussian Kirov Technol. Inst., Minsk, Belorussian SSR.

SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1985., No. 12, 6-7; BL.
PY: 1985
LA: Russian
AB: This property largely determines the strength of furniture cabinets. The instantaneous MOE was determined by loading tests on boards nominally 8-16 mm thick, faced with 0.8-mm oak veneer or with synthetic overlays. The test rig is described. The influence of board flexibility on the max. load sustained by boards of different lengths was also determined. The stability of vertical walls for cabinets is discussed. Results suggest that veneered particleboards are fairly strong and that boards 14 mm thick can be used for the walls of heavily loaded cupboards (for books, linen etc.).
DE: Panels-; composite-boards; strength-; Strength-testing; mechanical-methods; Wood-strength; compressive-strength; Particleboards-; overlays-; Furniture-; raw-materials; Veneers-; Quercus-robur
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-01514
UD: 9211
AN: F166024
DC: 1F075; 1F0323; 1F0661

154 of 788
TI: Bending strength and compression strength of sweet chestnut wood.
AU: Enchev,-E; Kyuchukov,-G; Georgieva,-A
SO: Gorsko-Stopanstvo-Gorska-Promishlenost. 1986., 42: 10, 28-29; 4 ref.
PY: 1986
LA: Bulgarian
AB: Data are tabulated on the strength of chestnut wood from three different sites in Bulgaria (wood density 610, 540, and 470 kg/m3). Strength depended on density. The best wood is deemed suitable for making quality furniture.
DE: Castanea-sativa; Furniture-; raw-materials; Wood-strength; bending-strength; Castanea-; compressive-strength
GE: Bulgaria-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-01595
UD: 9211
AN: F171680
DC: 1F0323; 1F0661
SM: F-P

155 of 788
TI: Bending strength of blockboards for furniture.
AU: Kyuchukov,-G; Dimova,-L
SO: Gorsko-Stopanstvo-Gorska-Promishlenost. 1986., 42: 12, 13-14.
PY: 1986
LA: Bulgarian

AB: Data are tabulated on the bending strength of two different types of blockboard, made with softwood strips 25 or 40 mm wide, faced with beech veneer 4 mm thick. The softwood strips were a random mix of Scots pine, Norway spruce and silver fir. Boards with core strips 40 mm wide were 1.3-1.7 times as strong as those with strips 25 mm wide. The bending strength of the blockboards was 2.3-3 times that of particleboards.
DE: Bulgaria-; blockboard-; Abies-alba; Panels-; strength-; Furniture-; raw-materials; Picea-abies; Pinus-sylvestris
GE: Bulgaria-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-01673
UD: 9211
AN: F171729
DC: 1F072; 1F0323; 1F0661
SM: F-P

156 of 788
TI: Rational design of cases with front frames and semi-rigid joints.
AU: Eckelman,-CA; Munz,-S
AD: Dep. For. & Nat. Resour., Purdue Univ., West Lafayette, IN 47907, USA.
SO: Forest-Products-Journal. 1987., 37: 6, 25-30; 8 ref.
PY: 1987
LA: English
AB: Procedures are outlined for calculating the stiffness of cases (such as chests of drawers and bookcases) which contain front frames and evaluating the effect of joint stiffness on overall stiffness of the case. These procedures together with procedures developed previously for the analysis of cases containing shelves and partitions provide a comprehensive method for the deflection analysis of case-type furniture.
DE: Furniture-; manufacture-; Joints-timber; mathematics-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-02040
UD: 9211
AN: F182321
DC: 1F0661; 1F0433; 1F0126
SM: F-P

157 of 788
TI: Strength of corner joints in carcass-type furniture.
OT: Festigkeitsuntersuchungen an Flacheneckverbindungen im Korpusmobelbau.
AU: Albin,-R; Muller,-M; Scholze,-H
AD: Dep. Wood Tech., Rosenheim Tech. Coll., German Federal Republic.
SO: Holz-als-Roh--und-Werkstoff. 1987., 45: 5, 171-178; 21 ref.
PY: 1987
LA: German
LS: English

AB: Some 13 types of corner joint (various edge-to-face and mitred configurations, either glued or incorporating detachable connectors) were made from 2 types of particleboard differing in thickness and surface coating. Strength under static transverse loading, and angular stiffness of joints are reported. Joint strength was affected both by joint type and particleboard type. Strength also depended on loading method, particularly in mitred joints. Results are discussed in relation to furniture testing.
DE: Particleboards-; joints-timber; testing-; Furniture-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00185
UD: 9211
AN: F189512
DC: 1F073; 1F0661; 1F0433
SM: F-P

158 of 788
TI: Technology of wood products.
OT: Tekhnologiya izdelii iz drevesiny.
AU: Buglai,-BM; Goncharov,-NA
SO: 1985, 408pp. Moscow, USSR; Lesnaya Promyshlennost'.
PY: 1985
LA: Russian
AB: A textbook of woodworking for technical colleges. Being the first systematic account of modern technology in joinery and furniture manufacture, and containing all the information needed to set up or modernize a factory, it is recommended to inventors, designers and managers. The first part of the book deals with the classification of wooden articles and the scientific and technical principles of their construction. The second part deals with technological processes, production control and process design.
DE: Wood-products; books-; Woodworking-; Furniture-; manufacture-
GE: USSR-
PT: Unnumbered-Whole
CI: review in Derevoobrabatyvayushchaya Promyshlennost' (1986) No. 5, 24. Ru. BL.
CAB: 1F Forest-Products-Abstracts 1988 011-00005
UD: 9211
AN: F190790
DC: 1F0111; 1F043; 1F065; 1F066

159 of 788
TI: The Korean market: opportunities for American hardwood exporters.
AU: Govett,-RL; Blatner,-KA; Kim,-WJ
AD: Coll. For., Wildlife & Range Sci., Univ. Idaho, Moscow, ID 83843, USA.
SO: Forest-Products-Journal. 1987., 37: 7-8, 23-30; 11 ref.
PY: 1987
LA: English
AB: Examination of forest products industries and import data in the Republic of Korea indicate that there is a significant and

probably permanent decline in production in the hardwood plywood and sawmilling sectors but an expansion in furniture and musical instruments manufacturing which could use hardwoods imported from the USA.
DE: Timber-trade; international-trade; USA-; Korea-Republic; furniture-; musical-instruments; forest-products-industries
GE: Korea-Republic; USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00248
UD: 9211
AN: F193900
DC: 1F10; 1F0215; 1F0661; 1F065
SM: F-P

160 of 788
TI: Material design factors for hardwood laminated-veneer-lumber.
AU: Hoover,-WL; Ringe,-JM; Eckelman,-CA; Youngquist,-JA
AD: Dep. For. & Nat. Resour., Purdue Univ., West Lafayette, IN 47907, USA.
SO: Forest-Products-Journal. 1987., 37: 9, 15-23; 10 ref.
PY: 1987
LA: English
AB: Material design factors selected for analysis were: species (red oak, sweetgum and yellow poplar), number of plies per unit thickness, and knots and cross grain. In addition, results from LVL containing knots were compared with those from panels having equivalent-size holes. Bending and shear strength were evaluated. Species and number of plies had a significant effect on strength properties; holes had an effect only after a threshold level of section loss was reached. A regression model was developed that predicts the effect of size, number and location of holes on max. load. Angled grain significantly reduced the strength of LVL.
DE: Laminated-wood; Quercus-; Liquidambar-; Liriodendron-; strength-; Quercus-rubra; Liquidambar-styraciflua; Liriodendron-tulipifera; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1988 011-00370
UD: 9211
AN: F196292
DC: 1F072; 1F0661
SM: F-P

161 of 788
TI: A review of the most important termites and wood-destroying beetles in the United States.
AU: Mauldin,-JK
AD: Dep. Agric., Forest Serv., P.O. Box 2008 GMF, Gulfport, MS 39503, USA.
SO: Biodeterioration 6. Papers presented at the 6th International Biodeterioration Symposium, Washington, DC, August 1984 [edited by Barry, S.; Houghton, D.R.]. 1986., 667-671; 17 ref. Farnham Royal, Slough, UK; CAB International.

PY: 1986
LA: English
AB: It is stated that wood-destroying beetles cost US citizens approx. $50 000 000 annually. Anobiidae (especially Xyletinus peltatus) primarily damage exposed wood in the crawl spaces of structures. Lyctidae (including Lyctus brunneus, L. africanus and L. planicollis) damage only hardwood lumber and products such as furniture, flooring and moulding. Some insecticides for control of these beetles are listed. Termite species, including Reticulitermes spp. and Cryptotermes brevis and others, which damage human dwellings, commercial buildings, furniture, utility poles, marine pilings, fence posts, paper products, logs and lumber, are discussed. It is stated that termite prevention, remedial control and repair of damage costs US citizens approx. $750 000 000 annually.
DE: Timbers-; insect-pests; USA-; control-; Structural-wood; Xyletinus-peltatus; Lyctus-; Isoptera-; Homes-; Buildings-; Furniture-; Poles-; Marine-structures; Posts-; Paper-; Reticulitermes-; Cryptotermes-brevis; Conferences-; Biodeterioration-6; Biodeterioration-; Anobiidae-; Lyctidae-; Lyctus-brunneus; Lyctus-africanus; Lyctus-planicollis; damage-; economics-; pests-; Wood-borers; Coleoptera-; Stored-products; International-Biodeterioration-Symposium; wood-; insecticides-
GE: USA-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00867
UD: 9211
AN: M248384
DC: 1F053
SM: F-U.577.1

162 of 788
TI: A new important pest of furniture in Turkey: Bostrychus capucinus (L.) (Coleoptera: Bostrychidae).
OT: Turkiye'de mobilyalarin onemli yeni bir zararl i s i : Bostrychus capucinus (L.) (Coleoptera: Bostrychidae).
AU: Lodos,-N
AD: Bitki Koruma Bolumu, Ziraat Fakultesi, Ege Univ., Bornova-Izmir, Turkey.
SO: Turkiye-Bitki-Koruma-Dergisi. 1985., 9: 3, 183-188; 4 ref., 2 fig.
PY: 1985
LA: Turkish
LS: English
AB: In recent years, furniture made either of bamboo or of the wood of horse-chestnut (Aesculus hippocastanum) carved to resemble bamboo has become fashionable in households in Turkey. Attention is drawn for the first time to heavy infestation of such furniture by Bostrichus capucinus, which causes severe economic losses, and notes are given on the adult and larval morphology, biology and control of the bostrichid.
DE: Bostrichus-capucinus; furniture-; Turkey-; Aesculus-hippocastanum; Bamboos-; biology-; control-; damage-;

pests-; Wood-borers; Timbers-
GE: Turkey-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-02624
UD: 9211
AN: E354471
DC: 1F0532; 1F0631
SM: BL

163 of 788
TI: The timber processing industry in the shadow of the slump in building construction.
OT: Holzverarbeitung im Schatten der Bauflaute.
SO: Bausortiment-+-Heimwerkerbedarf. 1985., 9: 11, 10; Supplement to Holz-Zentralblatt 111.
PY: 1985
LA: German
AB: Statistics from the W. German Office of Statistics are presented and discussed on production (relative to 1976) in the timber products industry and the construction industry, and of timber constructional elements (not prefabricated) and furniture in 1976-84(-85). Net production in all sectors peaked in 1979-80, followed by a sharp decline in 1980-81 and stagnation thereafter. Based on an analysis made by the Bayerische Hypotheke- und Wechselbank.
DE: Buildings-; materials-; Furniture-; industry-; Forest-products-industries; German-Federal-Republic; statistics-
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-00727
UD: 9211
AN: F068774
DC: 1F10; 1F0214; 1F0631; 1F0661
SM: F-P

164 of 788
TI: Alder and the uses of its timber. (3) Fruit crates, wooden beehives, toys, and joinery. (4) Turnery, clock cases, and other uses. (5) Model construction, furniture and musical instrument manufacture.
OT: Die Erle und die Verwendung ihres Holzes. Teil 3. Obstkisten, Bienenbeuten, Spielzeug und Tischlerei. Teil 5 [4]. Drechslerei, Uhrengehause und sonstige Verwendungen. Teil 5. Modellbau, Mobel- und Musikinstrumentenherstellung.
AU: Kropf,-P
SO: Holz-Zentralblatt. 1985; 1986., 111; 112: 146; 154/155/156; 5, 2146; 2258-2259; 36.
PY: 1985
LA: German
AB: [See FPA 9, 58] Also discussed are interior carpentry applications and use in pallets and packing containers (in part 3), and use in casings for meteorological instruments (in part 4).

Based on a dissertation for the Hildesheim Technical College, Holzminden, W. Germany.
DE: Alnus-glutinosa; Packing-containers; Pallets-; Joinery-; Turnery-; Musical-instruments; Wood-products; toys-; Buildings-; materials-; Furniture-; raw-materials; Woodworking-; handicrafts-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-00695
UD: 9211
AN: F074669
DC: 1F060
SM: F-P

165 of 788
TI: Utilisation of New Zealand-grown eucalypts.
AU: Haslett,-AN; Kininmonth,-JA; Revell,-D
AD: For. Res. Inst., Private Bag, Rotorua, New Zealand.
SO: What's-New-in-Forest-Research. 1984., No. 122, 4 pp.
PY: 1984
LA: English
AB: Research into the properties of a wide range of New Zealand-grown eucalypts has shown that timber from selected species is suitable for many of the special purposes (furniture, mouldings, panelling, flooring, veneers) for which indigenous New Zealand timbers or imported timbers are currently used. The most suitable species identified so far are Eucalyptus delegatensis, E. fastigata, E. obliqua, E. regnans, E. botryoides, E. saligna, E. globoidea, E. muellerana and E. pilularis. However, successful utilization depends on the way the timber is sawn and dried. A table is presented, showing the physical and mechanical properties and general uses of the most promising species.
DE: Eucalyptus-delegatensis; Eucalyptus-fastigata; Eucalyptus-obliqua; Eucalyptus-regnans; Eucalyptus-botryoides; Eucalyptus-saligna; Eucalyptus-globoidea; Eucalyptus-muellerana; Eucalyptus-pilularis; Eucalyptus-sieberi; Eucalyptus-fraxinoides; Eucalyptus-nitens; Panels-; raw-materials; Eucalyptus-; Veneers-; sawmilling-; drying-; wood-properties; furniture-; New-Zealand
GE: New-Zealand
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-00696
UD: 9211
AN: F075037
DC: 1F060; 1F045; 1F066; 1F071; 1F032; 1F0431
SM: F-P

166 of 788
TI: Requirements of particleboard from the viewpoint of the furniture industry.
OT: Anforderungen an Spanplatten aus der Sicht der Mobelindustrie.
AU: Albin,-R
SO: Holz-Zentralblatt. 1986., 112: 5, 21-23; 8 ref.
PY: 1986
LA: German

AB: Board properties related to demands for use in furniture include: inherent stability (e.g. long-term MOE in bending); dimensional stability (e.g. thickness swelling); joint strength (affected by IB strength, face strength, screw holding strength); lack of odour (related to formaldehyde emission); and environmental compatibility (for recycling etc.). In relation to board processing, workability and surface quality are of major importance. Furniture categories in which particleboard is a major component include kitchen, bedroom, bathroom, and office furniture. Particleboard was the main raw material in 70% of furniture manufactured in W. Germany in 1984.
DE: Furniture-; raw-materials; German-Federal-Republic; Particleboards-; properties-; uses-
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-00703
UD: 9211
AN: F076300
DC: 1F073; 1F0661
SM: F-P

167 of 788
TI: Methods of determining the content of free formaldehyde in particleboards, and its emission from furniture.
AU: Vasileva,-R
SO: Gorsko-Stopanstvo-Gorska-Promishlenost. 1985., 41: 6, 30-32; 5 ref.
PY: 1985
LA: Bulgarian
AB: Six different methods are briefly reviewed.
DE: Formaldehyde-; particleboards-; methodology-; Furniture-; raw-materials
GE: Bulgaria-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-01002
UD: 9211
AN: F077625
DC: 1F073; 1F0661; 1F0125
SM: F-P

168 of 788
TI: Correct moisture content essential for successful furniture export.
AU: Haslett,-AN; Kininmonth,-JA
AD: For. Res. Inst., Rotorua, New Zealand.
SO: Reprint,-New-Zealand-Forest-Service. 1985., No. 1613, 2 pp.; Reprint from NZ Furniture (1983) September, 10, 12.
PY: 1985
LA: English
AB: [See FPA 4, 919] In order to minimize shrinkage in wooden furniture and similar products, the timber used in their manufacture should be dried to the average e.m.c. it will attain in

service. A table is presented showing recommended average m.c. required at the time of installation of interior woodwork in most of New Zealand's potential markets. The major export markets have an e.m.c. that is lower, sometimes substantially, than for New Zealand.
DE: New-Zealand; timber-trade; furniture-; international-trade; manufacture-; Drying-; moisture-content
GE: New-Zealand
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1986 009-00988
UD: 9211
AN: F080146
DC: 1F0661; 1F045; 1F10
SM: F-BN/New Zealand

169 of 788
TI: Ship's joinery and carpentry work: a textbook.
OT: Sudovye stolyarno-plotnichnye raboty. Uchebnoe posobie.
AU: Chashenkov,-IV
SO: 1984, 256 pp. Leningrad, USSR; Sudostroenie.
PY: 1984
LA: Russian
AB: This textbook for secondary education and worker training in the USSR is of wider interest in view of its craft (trade) specialization. It gives a basic treatment of the timber products and the woodworking machinery, equipment and instruments used in shipbuilding, and work with cordage and tackle. It also covers finishing and exterior work, repairs and fittings to ship's quarters, and the handling and maintenance of ship's furniture, as well as basic safety, work hygiene and fire prevention.
DE: Joinery-; books-; Ships-; USSR-; Furniture-; Ropes-; Wood-products
GE: USSR-
PT: Unnumbered-Whole
AV: 0.60 r
CI: review in Derevoobrabatyvayushchaya Promyshlennost' (1984) No. 11, 10. Ru. BLL.
CAB: 1F Forest-Products-Abstracts 1986 009-00742
UD: 9211
AN: F080430
DC: 1F0111; 1F0433; 1F066; 1F068

170 of 788
TI: Control of wood-destroying insects using ionizing radiation.
OT: Die Bekampfung holzzerstorender Insekten mit ionisierender Strahlung.
AU: Bar,-M; Kerner,-G; Kohler,-W; Unger,-W
SO: Neue-Museumskunde. 1983., 26: 3, 208-215.
PY: 1983
LA: German
AB: A heavy infestation of Anobium punctatum in the floors, walls, and furniture of a section of the State Palace at Potsdam-Sanssouci

(E. Germany) was treated using 137Cs-emitted radiation applied using portable irradiation equipment. Complete control was obtained with a lethal dose of > 3 kGy.
DE: Wood-borers; control-; Anobium-punctatum; Ionizing-radiation; Historical-buildings; German-Democratic-Republic; Timbers-; Structural-timbers; Furniture-
GE: German-Democratic-Republic
PT: Numbered-Part
CI: Beitrage fur die Forstwirtschaft 19, 189.
CAB: 1F Forest-Products-Abstracts 1986 009-00931
UD: 9211
AN: F084044
DC: 1F0532

171 of 788
TI: Problems in Israel's forest products industry.
OT: Israels holzverarbeitende Industrie hat Probleme.
SO: Holz-Zentralblatt. 1986., 112: 20, 312.
PY: 1986
LA: German
AB: A discussion, with statistics for 1983-85. Up to 1983, industry production increased by an av. of 4%/yr. In 1983, total value of production reached US$580 million; this declined to $545 million in 1984 and (estimated) $535 million in 1985. Total value of exports increased by 11% in 1984, to $23.8 million, but a decrease to $20.5 million was expected for 1985. The USA is the largest customer, mainly for children's and office furniture. In 1985, the number of industry employees decreased by 17%, to 18 300; new investment decreased by 17%, to $26 million.
DE: Forest-products-industries; Israel-; Timber-trade; international-trade; USA-; Furniture-; industry-
GE: Israel-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-01730
UD: 9211
AN: F084877
DC: 1F10; 1F0215; 1F0661
SM: F-P

172 of 788
TI: Automatic sanding of surfaces with a base-coat of varnish becomes possible.
OT: L'egrenage automatique devient performant.
AU: Baclet,-C; Juan,-J
SO: CTB-Info. 1986., No. 4, 22-24.
PY: 1986
LA: French
AB: For several years it has been possible to sand furniture elements with flat surfaces. Methods have recently been developed for mouldings and moulded surfaces using either long brushes set perpendicular to the direction of movement of the pieces or shorter brushes on a rotating lathe. Two systems for the automatic sanding

of chairs are described, one involving immersion in a tank of pellets of an artificial abrasive, the other using glass balls.
DE: Furniture-; manufacture-; Sanding-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1986 009-00989
UD: 9211
AN: F084974
DC: 1F0661
SM: Reprint/2794

173 of 788
TI: Glulam furniture frame.
AU: Korzeniowski,-AM
AD: Warsaw Agric. Univ., Rakowiecka 26/30, PL 02-528 Warsaw, Poland.
SO: Proceeding volume 6. Symposium on forest products research international - achievements and the future, 22-26 April 1985, Pretoria, South Africa. 1985., Paper No. 9-8, 12 pp.; 7 ref. South Africa; Council for Scientific and Industrial Research.
PY: 1985
LA: English
AB: The development of a method involving a single pressing operation is described for laminated veneer frames with multi-tenoned joints. Results of industrial trials indicated that such frames were simple to construct and had high strength, structural reliability and durability.
DE: Conferences-; Forest-products-research-internationalachievements-and-the-future; Laminated-wood; joints-timber; strength-; uses-; Furniture-; manufacture-; testing-; glued-joints
GE: Poland-
PT: Unnumbered-Part
IS: 0-7988-3379-3
CAB: 1F Forest-Products-Abstracts 1986 009-01337
UD: 9211
AN: F087779
DC: 1F072; 1F0661; 1F0433; 1F0323
SM: BN/International/IUFRO/Misc.

174 of 788
TI: Machines for longitudinal and cross V-grooving.
OT: Maschinen fur die Langs- und Quer-Falttechnik.
AU: Soine,-H
SO: Holz-als-Roh--und-Werkstoff. 1986., 44: 3, 87-91.
PY: 1986
LA: German
LS: English
AB: A report on grooving saws and cutterhead systems designed to produce V-shaped cross grooves in carcass units (which are then 'folded' to make boxes, small furniture etc.), or to produce longitudinal grooves for manufacture of door frame linings, edge reinforcements for panels, etc. Equipment for grooving, gluing, and

unit assembly manufactured by Lehbrink is shown, with specifications.
DE: Woodworking-; cutting-; machinery-; Saws-; circular-saws; Packing-containers; Moulding-cutting-of-mouldings; Panels-; processing-; Buildings-; fittings-; Furniture-; manufacture-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-01579
UD: 9211
AN: F093884
DC: 1F0435; 1F0631; 1F064; 1F066; 1F070
SM: F-P

175 of 788
TI: Manufacture of furniture parts using automated edge processing and boring machines.
OT: Mobelteile-Fertigung auf Kantenbearbeitungs- und Bohrautomaten.
AU: Windmann,-H
SO: Holz-als-Roh--und-Werkstoff. 1986., 44: 3, 97-101.
PY: 1986
LA: German
LS: English
DE: Boring-; Panels-; processing-; Furniture-; manufacture-; Woodworking-; automation-; machinery-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-01580
UD: 9211
AN: F093892
DC: 1F0435; 1F0661
SM: F-P

176 of 788
TI: Design of corner block with anchor bolt table joints.
AU: Hayashi,-Y; Eckelman,-C
AD: Mitsui Wood. Co., Tokyo, Japan.
SO: Forest-Products-Journal. 1986., 36: 2, 44-48; 9 ref.
PY: 1986
LA: English
AB: A corner block with anchor bolt (CBA) construction for tables comprises front, back and side rails arranged in a rectangle with a pocket at each exterior corner for the attachment of legs. Corner blocks are put in each interior corner and secured in place by one or more anchor bolts inserted through the corner block into the edge of the leg, which is thereby pulled securely into the pocket formed by the ends of the rails. The strength and stiffness of CBA joints was evaluated for 10 different joint groups of one common joint configuration found in imported dining tables. The joint groups varied with respect to rail ht. number of bolts and presence or absence of screws to secure the block into the rails. Increasing rail ht. from 2 to 3 or 4 inches increased joint strength by 70 and 115%, respectively. Rail ht. effects were independent of bolt and screw effects. Strength was increased by 70% when 2 anchor bolts were used in place of 1. Use of screws increased strength by 20% in

3- and 4-inch rails with 1 anchor bolt and by 30% in similar joints with 2 bolts.
DE: Joints-timber; bolted-joints; strength-; Furniture-; manufacture-; testing-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-01859
UD: 9211
AN: F103367
DC: 1F0433; 1F0631; 1F0323
SM: F-P

177 of 788
TI: The feasibility of producing Leucaena press-lam and its use as a stock for making furniture.
AU: Jai,-SY; Huang,-CY; Hsiung,-JC
AD: Taiwan For. Res. Inst., Taipei, Taiwan.
SO: Leucaena-Research-Reports. 1982., 3, 63.
PY: 1982
LA: English
AB: Veneers (5-6 mm thick) were cut from bolts of 5-yr-old Salvador-type Leucaena (diam. 11-17 cm, length 116 cm) and used to produce a parallel-laminated lumber. The press-lam was heavy (666 kg/m3) and hard, with relative density of 0.584. The mechanical properties were similar to those of hardwoods used for quality furniture. The press-lam was easy to work and a coffee table and two chairs have been manufactured.
DE: Laminated-wood; Leucaena-; Leucaena-leucocephala; Taiwan-; Furniture-; raw-materials
GE: Taiwan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-02287
UD: 9211
AN: F112552
DC: 1F072; 1F0661
SM: F-P

178 of 788
TI: Technology of joinery and furniture manufacture: a textbook for technical colleges.
OT: Tekhnologiya stolyarno-mebel'nogo proizvodstva. Uchebnik dlya proftekhuchilishch.
AU: Shumega,-SS
SO: 1984, 264pp. Moscow, USSR; Lesnaya Promyshlemmost'.
PY: 1984
LA: Russian
AB: Subjects covered are: woodworking machines and their operation; wood joints and gluing; manufacture of joinery and furniture; construction of door and window assemblies; facing of wood and wood-based materials; assembly of wooden goods; finishing and repair of joinery and furniture; mechanization and automation of woodworking enterprises; and quality control and work safety.

DE: Joinery-; books-; Woodworking-; USSR-; Furniture-; manufacture-; Doors-; Windows-; Finishes-; Overlays-
GE: USSR-
PT: Unnumbered-Whole
AV: 0.85 r
CI: notice in Derevoobrabatyvayushchaya Promyshlennost' (1985) No. 4, 5. Ru. BL.
CAB: 1F Forest-Products-Abstracts 1986 009-02356
UD: 9211
AN: F121900
DC: 1F0111; 1F0433; 1F066; 1F0631

179 of 788
TI: Efficient ways of organizing the seasoning of sawn timber in Soviet Karelia.
AU: Dobrynin,-SV; Moskvina,-GA
AD: ALTI (For. Engrg. Inst.), Archangel, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1985., No. 3, 4-5; BL.
PY: 1985
LA: Russian
AB: The general practice in the USSR of seasoning to 18-20% at the sawmill, with further drying at the consumer's factory, is inefficient. Seasoning to 7% was tried and followed by storage at the mill in a covered unheated stack for 2-4 wk during 1982/83. The m.c. of rough dimension stock and rough tenoned furniture components of Scots pine and birch increased to 10% after 4 wk during winter and at a much slower rate in summer. Increases in tenon width by swelling during winter approached, but did not exceed, those of the usual specification. Results suggest that seasoning to consumer m.c. at the mill is feasible for storage periods of < 1 month and would give overall cost savings of > 3 roubles/m3.
DE: Drying-; economics-; moisture-content; Betula-alba; storage-; Pinus-sylvestris; Marketing-; USSR,-Russia; sawnwood-; Furniture-; raw-materials; Wood-properties; swelling-; Woodworking-
GE: USSR-; RSFSR-in-Europe
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-02614
UD: 9211
AN: F122345
DC: 1F045; 1F044; 1F0434; 1F0661; 1F10

180 of 788
TI: Marketing challenges for Malaysian rubberwood furniture.
AU: Nielsen,-KT
AD: Prai Malaysia Rattan & Wood Industries Sdn. Bhd., Penang, Malaysia.
SO: Malaysian-Forester. 1983, recd. 1986., 46: 4, 425-428; presented at Malaysian Timber Marketing Conf., Kuala Lumpur, 1983.
PY: 1983
LA: English

AB: Rubberwood [Hevea brasiliensis] was first used in woodworking in the mid-1970s as a substitute light-coloured timber for domestic woodware and subsequently furniture. Experience is summarized in the marketing of this furniture in N. America, Scandinavia, Australasia and Japan. Some alternative common names for the wood are noted.
DE: Hevea-brasiliensis; Malaysia-; marketing-; Furniture-; raw-materials; Woodworking-; handicrafts-; Conferences-; Malaysian-Timber-Marketing-Conference
GE: Malaysia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-02683
UD: 9211
AN: F126332
DC: 1F10; 1F065; 1F0661
SM: F-P

181 of 788
TI: A sample plant design for System 6.
AU: Reynolds,-HW; Hansen,-BG
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
General-Technical-Report,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1984., No. NE-87, 8pp.; 5 ref.
PY: 1984
LA: English
AB: [See FPA 7, 718] A typical System 6 factory was designed from the production rates and manpower requirements of each major piece of equipment. Economic analysis showed that 21% could be returned on an investment of $2 million, by making furniture blanks from white oak thinnings.
DE: Furniture-; raw-materials; Panels-; processing-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00165
UD: 9211
AN: F128327
DC: 1F072; 1F066
SM: F-BN/USA

182 of 788
TI: Programs for computer simulation of a crosscut-first furniture rough mill.
AU: Anderson,-RB
AD: NEFES, USDA For. Serv., Princeton, WV 24740, USA.
S 0 :
General-Technical-Report,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1985., No. NE-97, 11pp.; 2 ref.
PY: 1985
LA: English
AB: The model was designed to identify and measure the parameters within the rough mill system that affect the cost of processing each furniture part.

DE: Furniture-; simulation-; economics-; Sawmilling-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00160
UD: 9211
AN: F128360
DC: 1F0661; 1F0129; 1F0431
SM: F-BN/USA

183 of 788
TI: A small capacity lumber dryer for the furniture industry.
AU: Casin,-RF; Salita,-AA, Jr.
AD: FPRDI, NSTA, College, Laguna, Philippines.
SO: FPRDI-Journal. 1985., 14: 1/2, 30-36; 2 ref.
PY: 1985
LA: English
AB: Notes are given on the construction, performance and cost of an extendable kiln, capacity 1-3.8 m 3, intended for use by cottage and small-scale industries in the Philippines.
DE: Drying-; kilns-; economics-; Philippines-; Furniture-; industry-
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00092
UD: 9211
AN: F130712
DC: 1F045; 1F0661
SM: F-P

184 of 788
TI: The influence of fit on the mechanical properties of glued mortice and tenon joints.
AU: Korzeniowski,-AM
AD: Dep. Construction & Technol. Wood Prod., Warsaw Agric. Univ. - SGGW-AR, 02 528 Warsaw, Poland.
SO: Annals-of-Warsaw-Agricultural-University---SGGW-AR,-Forestry-and-Wood-Technology. 1984, rec. 1986., No. 31, 3-11; 7 ref.
PY: 1984
LA: English
LS: Polish
AB: The effects of variations in tenon thickness (clearance fit) and width (drive fit) on joint strength were studied in mortice and tenon joints of beech chairs. Increasing tenon width by 1 mm and giving a clearance of 0.1-0.2 mm in tenon thickness to allow for formation of a uniform glue layer increased the rigidity and load bearing capacity of the joint.
DE: Furniture-; manufacture-; Joints-timber; glued-joints; testing-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00075
UD: 9211
AN: F131930

DC: 1F0433; 1F0661; 1F0323
SM: F-BN/Poland

185 of 788
TI: Compaction of sliced veneer.
AU: Kirillov,-AN; Glotov,-AI
AD: For. Engrg. Inst. (MLTI), Moscow, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1985., No. 5, 9-10; BL.
PY: 1985
LA: Russian
AB: Compaction of veneers before applying to furniture components subsequently reduces paint consumption by 25% without loss of quality. The residual deformation E of the veneers after pressing was about 30% for ash and 40% for mahoganies. Rolling parallel to grain was investigated in the laboratory as a method of pressing. E data are tabulated for both veneers at pressures of 25-60 MPa (ash) and 20-45 MPa (mahogany). E decreased with increases in rolling speed and veneer m.c. Reductions in E occurred in storage at an increased m.c. The veneer m.c. for both pressing and storage is recommended to be 10%.
DE: Veneers-; finishes-; treatment-; USSR-; Improved-wood; compressed-wood; Furniture-; raw-materials; Meliaceae-; Fraxinus-excelsior
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1987 010-00163
UD: 9211
AN: F132766
DC: 1F071; 1F055; 1F0661; 1F077

186 of 788
TI: Metal/wood moulds for manufacture of goods from foamed polyurethane.
AU: Rochis,-ZZ
AD: PKB Mebeli Minmebel'drevproma Litovskoi SSR, Lithuanian SSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1985., No. 6, 27; BL.
PY: 1985
LA: Russian
AB: Soft upholstery components of chair backs and seats are usually moulded in cast aluminium moulds which are expensive to produce. A wooden mould with metal fittings is described which was designed at a furniture industry design centre in Lithuania. The mould, made of heavy hardwood impregnated with drying oil and painted, was tried on a factory scale in 1984. The wooden moulds proved to be short-lived (about 500 pressings per mould), suggesting that they were more suitable for development work than for large-scale manufacture.
DE: Moulds-; Wood-products; Furniture-; manufacture-; USSR-
GE: Lithuanian-SSR
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1987 010-00420
UD: 9211
AN: F133380
DC: 1F065; 1F0661

187 of 788
TI: Utilisation properties of New Zealand-grown European oak (Quercus robur).
AU: Haslett,-AN
AD: FRI, NZ. For. Serv., Private Bag, Rotorua, New Zealand.
SO: FRI-Bulletin,-Forest-Research-Institute,-New-Zealand. 1984., No. 58, i + 9 pp.; 5 ref., 1 pl.
PY: 1984
LA: English
AB: Nine logs from 7 Q. robur trees, aged about 105 yr, from North Canterbury were examined and the properties compared with British grown oak and New Zealand tawa (Beilschmiedia tawa). The New Zealand material had higher density and better strength properties than the British material. The oak was difficult and slow to dry with a tendency to split and warp. Frequent small knots caused kinks and associated areas of cross-grain that picked-out during machining. End-use evaluations showed the wood to be suitable for high-quality furniture as a substitute for imported Quercus mongolica.
DE: New-Zealand; Quercus-robur; Quercus-mongolica; furniture-; Beilschmiedia-tawa; Drying-; Quercus-; Wood-properties; working-properties; uses-; Wood-utilization; raw-materials
GE: New-Zealand
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00431
UD: 9211
AN: F986650
DC: 1F032; 1F045; 1F0661
SM: BN/New Zealand

188 of 788
TI: Moulded products made from wood-glue compositions.
OT: Formovannye izdeliya iz drevesno-kleevoi kompozitsii.
AU: Garasevich,-GI; Semenovskii,-AA
SO: 1982, Ed. 2, 136 pp.; 30 ref. Moscow, USSR; Lesnaya Promyshlennost'.
PY: 1982
LA: Russian
AB: An account of the theory and results of experiments on 'drevolit' or wood-filled plastic. Also described are its properties, economics of production, and manufacturing technology, equipment and processes [in the USSR], especially for furniture drawers [see FPA 6, 2302], stools and 'Parkelit' floor panels. Recommendations are made on the use of 'drevolit' for making press-moulds and other moulded products.
DE: Moulded-products; books-; uses-; USSR-; Furniture-; manufacture-; raw-materials; Floors-

GE: USSR-
PT: Unnumbered-Whole
AV: 0.45 r
CI: review in Derevoobrabatyvayushchaya Promyshlennost' (1983) No. 5, 21. Ru. BLL.
CAB: 1F Forest-Products-Abstracts 1985 008-00375
UD: 9211
AN: F988334
DC: 1F0111; 1F079; 1F0631; 1F0661; 1F073

189 of 788
TI: Some recent Irish records of Euophryum confine Broun (Col., Curculionidae).
AU: Anderson,-R
AD: Department of Agriculture & Food Chemistry, Queen's University of Belfast, Belfast, BT9 5PX, United Kingdom.
SO: Entomologist's-Monthly-Magazine. 1984., 120: 1444/1447, 216; 3 ref.
PY: 1984
LA: English
AB: An adult of the wood-boring beetle Euophryum confine was found emerging from a crack on the surface of a polished oak table in a town in Northern Ireland in June 1977. Two other instances of infestation in dwellings (in Northern Ireland and the Irish Republic in 1982) are mentioned. The weevil was also found infesting stumps of Scots pine (Pinus sylvestris) and larch (Larix decidua) in Northern Ireland in 1980 - 82.
DE: Euophryum-confine; distribution-; United-Kingdom; commodities-; furniture-; Northern-Ireland; Pinus-sylvestris; Larix-decidua; food-plants; Ireland-; Wood-borers; damage-; ecology-; UK-; Timbers-
GE: United-Kingdom; Irish-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01183
UD: 9211
AN: E214050
DC: 1F0532

190 of 788
TI: Drying and burnishing dyed furniture parts by a hot rolling method.
OT: Suszaco-wygladzajaca obrobka barwionych elementow meblowych metoda walcowania na goraco.
AU: Nikolowa-Burzynska,-I
SO: Prace-Instytutu-Technologii-Drewna,-Poland. 1983., 30: 1/2, 79-103; 13 ref., 2 pl. BLL.
PY: 1983
LA: Polish
LS: English, Russian
AB: The possibility was examined of replacing multi-operational processes with a single operational process in the preparation of furniture parts for surface finishing. The following schedule

appeared to be feasible: spreading the dye sol. onto the substrate at 100-120 g/m2; initial evaporation seasoning with air flow for 2 min, rolling at 200-220 ° C roller temp. at a speed of 4-6 m/min under linear pressure of 40 kg/cm.
DE: Furniture-; manufacture-; Finishes-; Roller-processing-of-wood; Staining-; Poland-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01193
UD: 9211
AN: F001963
DC: 1F055; 1F0661

191 of 788
TI: Mechanical properties of typical inseparable furniture joints.
OT: Wlasciwosci mechaniczne nierozlacznych polaczen meblarskich o wybranych zlaczach.
AU: Dziegielewski,-S; Lesniewska,-E
AD: Katedra Meblarstwa, Akademia Rolnicza, Poznan, Poland.
SO: Prace-Instytutu-Technologii-Drewna,-Poland. 1983., 30: 1/2, 105-116; 29 ref. BLL.
PY: 1983
LA: Polish
LS: English, Russian
AB: Tests were made on some commonly used furniture joints to determine static strength, deformation under loading, dynamic strength and fatigue resistance. For beech wood, best results were obtained with longitudinal dowel joints and corner locked end joints. For particleboard members, best results were obtained with longitudinal mitred dowel joints and half-cross tongued joints.
DE: Joints-timber; testing-; Particleboards-; Furniture-; raw-materials; Poland-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01141
UD: 9211
AN: F001971
DC: 1F0433; 1F0661; 1F0323

192 of 788
TI: Studies of the mechanical properties of 'lignamon' from Alnus incana.
AU: Kozulin'sh,-V; Kulin'sh,-L; Tukherm,-Kh.; Eks,-M
AD: LSKhA, 229600 Elgava, Latvian SSR.
SO: Trudy,-Latviiskaya-Sel'skokhozyaistvennaya-Akademiya-Raksti,-Latvijas-Lauksaimniecibas-Akademija. 1983., No. 206, 42-46; 7 ref.
PY: 1983
LA: Russian
AB: Lignamon was produced by treating samples of alder wood with gaseous NH3 and pressing for 15 min, increasing pressure by 0.2 MPa/min to achieve samples with 1.4-1.8 times initial density;

platen temp. was 170 ° C and compressed samples reached a temp. of 50 ° C during pressing. Lignamon with densities of 770 kg/m3 and over (at least 1.5-1.6 times initial density) had strength and hardness properties at least as good as those of unmodified oak and beech and proved to be suitable for use in furniture manufacture. Raw material should be graded into categories with a density range of 30-50 kg/m3 before modification to achieve a uniform final product.
DE: Improved-wood; uses-; compressed-wood; Alnus-incana; Chemical-modification-of-wood; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01268
UD: 9211
AN: F005853
DC: 1F077
SM: BN/Latvia/Misc.

193 of 788
TI: System 6: making frame-quality blanks from white oak thinnings.
AU: Reynolds,-HW; Araman,-PA
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1983., No. NE-520, 9 pp.; 6 ref.
PY: 1983
LA: English
AB: Frame blanks of acceptable quality were made using System 6 technology [see FPA 7, 718]. When the poorest two thirds of all boards were used, yield of frame blanks was 56%; better boards should be used for making clear-quality blanks.
DE: Furniture-; raw-materials; Quercus-alba; Thinning-; utilization-; Sawmilling-; Quercus-; log-grade; log-size; log-breakdown-methods; quality-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01138
UD: 9211
AN: F006566
DC: 1F0431; 1F0661; 1F046
SM: BN/USA

194 of 788
TI: Furniture rough mill costs evaluated by computer simulation.
AU: Anderson,-RB
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1983., No. NE-518, 11 pp.
PY: 1983
LA: English
DE: Furniture-; industry-; economics-; simulation-; Woodworking-
GE: USA-
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1985 008-01225
UD: 9211
AN: F006574
DC: 1F0661; 1F0129
SM: BN/USA

195 of 788
TI: The effect of changes in lumber and furniture prices on wood furniture manufacturers' lumber usage.
AU: Luppold,-WG
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
SO: Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1983., No. NE-514, 8 pp.; 5 ref.
PY: 1983
LA: English
AB: Manufacturers' demands for oak, maple, poplar, open-grain and close-grain lumber were estimated using cross-sectional, time series techniques on data collected from 11 manufacturers in Virginia and North and South Carolina. Demand for open-grain species was more price responsive than the demand for close-grain species.
DE: Furniture-; raw-materials; economics-; Prices-; Timber-trade; domestic-trade; USA,-Virginia; USA,-North-Carolina; USA,-South-Carolina
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01226
UD: 9211
AN: F006590
DC: 1F0661; 1F10
SM: BN/USA

196 of 788
TI: Growing exports of bamboo canes.
SO: Chilean-Forestry-News. 1984., No. 83, 8-9; 2 pl.
PY: 1984
LA: English
AB: A report on Chile's export trade in Chusquea coleu [culeou] ('coligue') culms, mainly used for furniture manufacture. Argentina is at present the main foreign buyer. The culms are sold on a unit basis at an approx. price of US$0.10. During 1983, some 698 680 units were sold. Information is given on four export firms.
DE: Chusquea-culeou; Timber-trade; international-trade; Chile-; Furniture-; raw-materials; Bamboos-; uses-
GE: Chile-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01348
UD: 9211
AN: F006779
DC: 1F10; 1F0934

197 of 788
TI: Determination of the characteristics of wood-based materials.
OT: Untersuchungen zur Ermittlung von Materialkennwerten an Holzpartikelwerkstoffen.
AU: Neumuller,-J; Niemz,-P
AD: Sekt. Verarb.- Verfahrenstech. TU Dresden, German Federal Republic.
SO: Holztechnologie. 1983., 24: 4, 195-200; 6 ref. BLL.
PY: 1983
LA: German
LS: English, Russian
AB: Studies were made on samples of industrial particleboard (9 types), MDF, and composite board (extruded particleboard with veneer surfaces). Special attention was given to certain properties, of particular interest in furniture manufacture, that are not yet incorporated in E. German standards, viz. bending strength parallel to surface, shear modulus, Poisson's constant, etc. Correlations between properties were analysed.
DE: Panels-; standards-; German-Democratic-Republic; composite-boards; properties-; Particleboards-; testing-; Fibreboards-; Wood-properties; correlation-; Furniture-; raw-materials
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01570
UD: 9211
AN: F011535
DC: 1F070; 1F0323; 1F0115

198 of 788
TI: Manufacture, processing and use of postformable wood-based materials. 2.
OT: Herstellung, Verarbeitung und Anwendung nachformbarer Holzpartikelwerkstoffe. Teil 2.
AU: Lang,-K; Scheithauer,-M; Gollner,-R; Moller,-A
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1983., 24: 4, 215-220; 1 ref., 4 pl. BLL.
PY: 1983
LA: German
LS: English, Russian
AB: Methods are reviewed for the bending (with or without pressure) of 3-5 mm thick fibre- or particleboards incorporating up to 30% polyacrylate plastic. Application of overlays, and use in furniture manufacture are discussed.
DE: Bending-; Particleboards-; processing-; uses-; Fibreboards-; Furniture-; raw-materials; Panels-; German-Democratic-Republic; overlays-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01573
UD: 9211
AN: F011640
DC: 1F070; 1F0432; 1F0661

199 of 788
TI: BLANKS: a computer program for analyzing furniture rough-part needs in standard-size blanks.
AU: Araman,-PA
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Fxperiment-Station,-USDA-Forest-Service. 1983., No. NE-521, 8 pp.; 1 ref.
PY: 1983
LA: English
DE: Furniture-; raw-materials; computer-techniques
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01567
UD: 9211
AN: F012515
DC: 1F0661; 1F0129
SM: BN/USA

200 of 788
TI: Conventional processing of standard-size edge-glued blanks for furniture and cabinet parts: a feasibility study.
AU: Araman,-PA; Hansen,-BG
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1983., No. NE-524, 11 pp.; 6 ref.
PY: 1983
LA: English
DE: Furniture-; raw-materials; manufacture-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01568
UD: 9211
AN: F012540
DC: 1F0661
SM: BN/USA

201 of 788
TI: System 6 used to make kitchen cabinet C2F blanks from small-diameter, low-grade red oak.
AU: Reynolds,-HW; Gatchell,-CJ; Araman,-PA; Hansen,-BG
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1983., No. NE-525, 11 pp.; 10 ref.
PY: 1983
LA: English
AB: An enterprise is described that makes clear-two-face (C2F) blanks for the kitchen cabinet industry using System 6 technology [see FPA 7, 718].

DE: Furniture-; manufacture-; raw-materials; Quercus-rubra
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01569
UD: 9211
AN: F012558
DC: 1F0661
SM: BN/USA

202 of 788
TI: Paraiso (Melia azedarach var. 'Gigante') woodlots: an agroforestry alternative for the small farmer in Paraguay.
AU: Evans,-PT; Rombold,-JS
AD: Peace Corps., c/o US Embassy, Asuncion, Paraguay.
SO: Agroforestry-Systems. 1984., 2: 3, 199-214; 4 ref., 2 pl.
PY: 1984
LA: English
AB: A description of methods of growing mixtures of paraiso with annual crops, grazing and/or other trees such as Leucaena leucocephala in the degraded, acid, sandy soils of the humid sub-tropical Guayaybi area. Paraiso grows rapidly with deep root systems and contributes a large amount of organic material to the soil as litter. The wood is useful for furniture, veneers, plywood and interior carpentry and can be harvested at age 12-15 yr (d.b.h. 40-50 cm).
DE: Melia-azedarach; Agroforestry-; Paraguay-; Furniture-; raw-materials; Veneers-; Melia-; Plywood-; Agrosilvopastoral-systems; descriptions-; Leucaena-leucocephala; small-farms; farm-woodlands; products-; soil-fertility
GE: Paraguay-
PT: Numbered-Part
CAB: 0F Forestry-Abstracts 1985 046-03675; 1F Forest-Products-Abstracts 1985 008-01564; 7Y Agroforestry-Abstracts 1988 001-00473
UD: 9211
AN: F013619
DC: 0F1512; 1F066

203 of 788
TI: Strength behaviour of windows and furniture frames.
AU: Kovacs,-Z
AD: Univ. Saltuaria et Lignaria, Sopron, Hungary.
SO: Acta-Facultatis-Ligniensis,-Hungary. 1984., No. 1, 41-53; 4 ref.
PY: 1984
LA: English
LS: German, Russian
AB: A method for measuring angle changes in member cross sections of a double tenon joint is described that involves fixing 4 pieces of mirror on both sides of the test specimen on both members near the joint connection. The mirrors reflect the image of a scale fixed in a vertical plane on a telescope. In-plane (a) and

out-of-plane (b) bending of frame corners were investigated by (a) measuring the change of angle between cross sections adjacent to the joint which were subjected to a bending moment; and (b) measuring the angle difference between the rotation about the bending axis of one member end and the rotation (twist) about the longitudinal axis of the other member end. Specimens tested included corner parts of unholstered furniture frames in spruce, white poplar [Populus alba] and black locust (Robinia pseudoacacia) and spruce window frames. Consistent results were obtained for (a) and (b) indicating that the method is suitable for investigating distortional behaviour of wooden joints.
DE: Joints-timber; testing-; Joinery-; Windows-; Furniture-; Picea-abies; Populus-alba; Robinia-pseudoacacia
GE: Hungary-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01566
UD: 9211
AN: F015131
DC: 1F066; 1F0323; 1F0631; 1F0433

204 of 788
TI: Trade between East and West Germany in forest products and furniture goods in 1984.
OT: Der innerdeutsche Warenverkehr der Holz- und Mobelindustrie 1984.
SO: Holz-Zentralblatt. 1985., 111: 33, 523; BLL.
PY: 1985
LA: German
AB: Statistics are presented and discussed on orders and deliveries of E. German forest products and furniture to W. Germany from 1975 to 1984. The demand for low-priced E. German goods is high. Restrictions have been placed on imports of sawn timber, but there is an unrestricted and increasing flow of most other goods categories into W. Germany. E. German upholstered furniture is a major growth area. In 1984, W. Germany had a negative balance of trade with E. Germany (in the product lines considered) of DM428.8 million, compared with a negative balance of DM134.1 million in 1975.
DE: Timber-trade; international-trade; German-Federal-Republic; German-Democratic-Republic; trade-; Furniture-; industry-
GE: German-Federal-Republic; German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01640
UD: 9211
AN: F015557
DC: 1F10; 1F0214; 1F0661

205 of 788
TI: Pau marfim - a furniture timber from South America.
AU: Coetzee,-ST
AD: South African For. Res. Inst., Pretoria, South Africa.
SO: South-African-Forestry-Journal. 1984., No. 131, 72-74; 6 ref.,

2 pl.
PY: 1984
LA: English
AB: The distribution, timber properties, uses and macroscopic structure of pau marfim (Balfourodendron riedelianum) are described.
DE: Balfourodendron-riedelianum; Wood-properties; Wood-anatomy; South-America; Furniture-; raw-materials .
GE: South-America
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01691
UD: 9211
AN: F021700
DC: 1F030; 1F066

206 of 788
TI: End-uses of Malaysian timbers 3 - Furniture.
AU: Sim,-HC
AD: For. Res. Inst., Kepong, Malaya.
SO: Malaysian-Forester. 1983, recd. 1985., 46: 1, 110-116; 6 ref.
PY: 1983
LA: English
AB: Three categories of furniture are distinguished: heavy duty; general utility; and decorative. Strength and other properties are specified for each category and 86 timbers are categorized. [See also FPA 6, 157]
DE: Furniture-; raw-materials; PENINSULAR-MALAYSIA; timbers-
GE: Peninsular-Malaysia
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-01870
UD: 9211
AN: F024416
DC: 1F0661; 1F030

207 of 788
TI: Proceedings, Twelfth Annual Hardwood Symposium of the Hardwood Research Council. Pathways to increased cost effectiveness in management and utilization of eastern hardwoods.
CA: USA, Hardwood Research Council.
SO: 1984, i + 179 pp.; many ref. USA.
PY: 1984
LA: English
AB: A meeting held at Cashiers, North Carolina on May 8-11, 1984. There are 19 papers by various authors. The first 2, grouped under the heading: How to stay competitive in the face of increasing imports of furniture and dimension, are entitled Perceptions, and Impact of furniture imports and are followed by the transcript of a discussion. The remaining 17 papers are: Estimating the present and future value of yellow-poplar stands; ALPS - a new automated log and lumber processing system for hardwoods; Future utilization processes and markets that will affect hardwood timber management; Sawmill improvement in hardwood mills; Harvesting of small trees

and small tracts; Computer mapping in forest research and management; How to figure financial returns from hardwood timber management; The state of the art in finishing - 1984 April furniture market review; Polyester 'wet look' high performance furniture coatings; Soil-site classification for bottomland hardwoods; Landforms: a practical basis for classifying forest sites in the interior uplands; Intensive management of black walnut and other fine hardwoods; Balanced saw performance; Gypsy moth status and outlook; Lumber characteristics from gypsy moth-killed red and white oak trees; Dip-diffusion treatment of unseasoned hardwood lumber with boron compounds for prevention of beetles in lumber and other products; and Lumber and wood-based products used by the furniture industry. A poster presentation on US hardwood exports is also included.
DE: Conferences-; Annual-Hardwood-Symposium; Economics-; forest-management; profitability-; Valuation-; Mapping-; Quercus-velutina; Quercus-coccinea; Quercus-prinus; Liriodendron-tulipifera; Computer-techniques; Site-class-assessment; soils-; topography-; Silviculture-; intensive-silviculture; Juglans-nigra; Lymantria-dispar; damage-; Quercus-rubra; insect-pests; Lymantria-; Quercus-alba; Timber-trade; international-trade; USA-; Furniture-; industry-; Finishes-; Saws-; Sawmilling-; Logging-; Wood-borers; prevention-
GE: USA-
PT: Unnumbered-Whole
AV: $10.00
CAB: 0F Forestry-Abstracts 1985 046-03759; 1F Forest-Products-Abstracts 1985 008-01657
UD: 9211
AN: F026214
DC: 0F0119; 1F0119; 0F047; 0F1025; 0F044; 1F10; 1F066; 1F034; 1F055
SM: RS/USA/General

208 of 788
TI: 'Interzum' special number - timber trade and timber imports.
OT: Sondernummer Interzum - Holzhandel und Holzimport.
AU: Schimpfle,-V (et-al.); Peters,-GA; Brickenstein,-R; Schulze-Riewald,-H
AD: Unternehmensberatung Schuler, 7293 Pfalzgrafenweiler, German Federal Republic.
SO: Holz-Zentralblatt. 1985., 111: 52/53, 757...838; 4 ref., many pl.
PY: 1985
LA: German
AB: Ten papers and several short reports on the occasion of the International Supplier Fair on 10-14 May 1985 in Cologne. Five papers are noticed elsewhere, and 5 here: Schimpfle, V. [Prospects for suppliers of furniture parts in a decreasing market for furniture.] Perspektiven der Zulieferung von Mobelteilen bei zuruckgehendem Marktvolumen der Mobel. 757-758. Peters, G.A. (et al.) [Market relations between joinery firms and timber dealers.] Marktbeziehungen zwischen Schreinern und Holzhandlern. 761. - A study in the Rosenheim area (Bavaria), with recommendations for

timber marketing. Brickenstein, R. [On the verge of a normalization of the West German market? - the international sawn timber market in April 1985.] Vor einer Normalisierung des deutschen Marktes? Der internationale Nadelschnittholzmarkt (Stand April 1985). 778. - Statistics on price indexes (1960-1985) and production, imports and exports (1970-1985) are presented and discussed. A return to a sellers' market is anticipated. [Trade agents - important links in the distribution chain.] Handelsvermittlung - ein wichtiges Glied in der Distributionskette. 782-783 [2 ref.] Based on a study by the IFO, Munich, on the role of middlemen in the timber and construction trade, in the context of a larger study on goods distribution in W. Germany. Schulze-Riewald, H. [The free-market basis of foreign trade in timber should not be put at risk.] Die Marktwirtschaft im Holzaussenhandel nicht aufs Spiel setzen! 802-804. - Discussed with special reference to import restrictions, when there are surpluses of softwood sawn timber resulting from salvage logging of damaged stands in W. Germany.
DE: Timber-trade; domestic-trade; German-Federal-Republic; international-trade; joinery-; salvage-logging; sawmilling-; furniture-; wood-supply-and-demand; industry-; raw-materials
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02146
UD: 9211
AN: F026907
DC: 1F10; 1F043; 1F066

209 of 788
TI: Utilization of short dimension stock for the manufacture of moulded furniture elements.
OT: Pouzitie kratkych hranolcekov na vyrobu ohybanych nabytkovych dielcov.
AU: Sarkan,-M
AD: Drevarska Fakulta, VSLD, Zvolen, Czechoslovakia.
SO: Drevo. 1985., 40: 1, 2-5; 4 ref. BLL.
PY: 1985
LA: Slovakian
LS: English, German, Russian
AB: Laboratory investigations are reported on the jointing of short dimension wood, its thermal plasticization and bending for use in moulded furniture products. Current technology in Czechoslovakia appears to be suitable for this process.
DE: Furniture-; raw-materials; manufacture-; Bentwood-; Plasticizing-of-wood; Moulded-products; joints-timber; uses-; Czechoslovakia-
GE: Czechoslovakia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02109
UD: 9211
AN: F028900
DC: 1F0661; 1F077; 1F0433

210 of 788
TI: A comprehensive method of analysis of case furniture.
AU: Eckelman,-CA; Rabiej,-R
AD: Dep. For. & Nat. Resources, Purdue Univ., W. Lafayette, IN 47907, USA.
SO: Forest-Products-Journal. 1985., 35: 4, 62-68; 14 ref.
PY: 1985
LA: English
AB: Finite element methods of analysis were used to investigate the deflection characteristics of furniture cases, as used in cabinet furniture. Results of the analyses indicated that the deflection of shelves is identical to that of the top and bottom and the deflection of partitions is equivalent to that of the sides in a case. An exact equation was developed which predicts the deflection of an unsupported corner of a case which may contain both shelves and partitions. Furniture manufacturers may use this equation to optimize panelled case designs.
DE: Furniture-; testing-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02110
UD: 9211
AN: F029310
DC: 1F0661; 1F0323; 1F0129

211 of 788
TI: The total system. Session I.
AU: Bennett,-W (et-al.); Thunell,-B; Birkeland,-R; Skjelmerud,-H; Lemaster,-RL; Dornfeld,-DA; Johnston,-JS; Mathur,-VNP; Wiklund,-M; Sugihara,-H
AD: R&D, Weyerhaeuser Co., Tacoma, Washington.
SO: Seventh Wood Machining Seminar. Proceedings of a conference held at the University of California Forest Products Laboratory, Richmond, October 18-20, 1982 [edited by Dickinson, F.E.]. undated., 13-88; many refs., 4 pl. Richmond, California; Forest Products Laboratory.
LA: English
AB: The following 8 papers were presented at this session: Bennett, W. The ultimate mill? To do what? 13-17 [1 pl.] Thunell, B. Estimating production capacity during sawmill planning. 18-32 [16 ref.] Birkeland, R. Potentials inherent in the different possible wood machining processes. 33-41. Skjelmerud, H. Some considerations of total integrated wood losses in sawing and planing operations. 42-53. Lemaster, R.L.; Dornfeld, D.A. Measurement of surface quality of sawn and planed surfaces with a laser. 54-63 [11 ref.] Johnston, J.S.; Mathur, V.N.P. A commercial lumber slicer. 64-70 [3 ref., 1 pl.] Wiklund, M. High yield production of blanks for furniture and joinery. 71-77 [2 pl.] Sugihara, H. A general view of current wood machining research in Japan. 78-88.
DE: Conferences-; Wood-machining-seminar; Sawmilling-; equipment-; layout-and-planning; quality-; Japan-; Woodworking-; laser-beams;

Slicing-; Furniture-; raw-material
GE: USA-; Japan-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02065
UD: 9211
AN: F030254
DC: 1F0431
SM: RS/USA/California

212 of 788
TI: Strength of joints formed by plastic edge veneers with particleboards.
AU: Zotov,-AA; Cherkasov,-N-Ya.
AD: For. Eng. Inst., Moscow, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1984., No. 1, 4-5; 3 ref. BLL.
PY: 1984
LA: Russian
AB: Effects of veneer gluing conditions, using 16-mm board, 3 plastic veneers and a new hot-melt glue, all of Soviet manufacture, were studied under factory conditions at the Taganrog furniture combine. Joint strength increased with increasing rigidity of the plastic veneer but was higher with MF than with polyester plastics; adhesion to the particleboard was good. Joint strength generally increased and glue consumption decreased with increasing temp. (up to 200 ° C) and feed speed, although peak strength was reached at 175 ° .
DE: Furniture-; manufacture-; USSR,-Russia; Gluing-; Particleboards-; overlays-
GE: USSR-; Russia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02233
UD: 9211
AN: F031811
DC: 1F075; 1F0661; 1F073

213 of 788
TI: Utilization of a carboxymethylcellulose-based primer.
AU: Mikhailishin,-NV
AD: PDO Volyn'drev, Ukrainian SSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1984., No. 2, 9-10; BLL.
PY: 1984
LA: Russian
AB: The primer (also containing UF resin and fillers) was developed in the Ukraine for furniture panels veneered with oak (mainly) or mahogany; its preparation and mechanical application are described. Use of the primer before the finishing coat of clear nitrocellulose or polyester lacquer has reduced the consumption of lacquer with significant net savings.
DE: Furniture-; manufacture-; USSR,-Ukrainian-SSR; Veneers-; finishes-; Paints-; Quercus-robur; Swietenia-

GE: Ukrainian-SSR
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02222
UD: 9211
AN: F031862
DC: 1F055; 1F0661; 1F075

214 of 788
TI: Proper use of water-thinnable finishes.
OT: Mit wasserverdunnbaren Lacksystemen richtig umgehen.
AU: Litzcke,-D; Klein,-KH
AD: Kristall-Lackfabrik H. Muller & Co., Wuppertal, German Federal Republic.
SO: Holz-Zentralblatt. 1985., 111: 67/68, 1018.
PY: 1985
LA: German
AB: Six classes of water-thinnable finishes currently used in furniture manufacture are discussed. Special reference is made to potential environmental pollution hazards in the use of these materials.
DE: Finishes-; Furniture-; raw-materials; Pollution-; industrial-wastes
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02223
UD: 9211
AN: F033709
DC: 1F055; 1F028; 1F0661

215 of 788
TI: Nitrocellulose lacquers today.
OT: Nitrolacke in der heutigen Zeit.
AU: Litzcke,-D; Klein,-KH
AD: Kristall Lackfabrik H. Muller & Co., Wuppertal, German Federal Republic.
SO: Holz-Zentralblatt. 1985., 111: 69, 1043.
PY: 1985
LA: German
AB: A discussion of the uses of 8 major classes of nitrocellulose finishes in the furniture industry.
DE: Finishes-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02450
UD: 9211
AN: F035175
DC: 1F055; 1F0661

216 of 788
TI: Polyisocyanate cross-linked systems.
OT: Polyisocyanatvernetzbare Systeme.
AU: Litzcke,-D; Klein,-KH
AD: Kristall Lackfabrik H. Muller & Co., Wuppertal, German Federal

Republic.
SO: Holz-Zentralblatt. 1985., 111: 76, 1142-1143.
PY: 1985
LA: German
AB: A discussion of the use of these 2-component lacquer systems in the furniture industry. Polyurethane resins are included in this group.
DE: Finishes-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02456
UD: 9211
AN: F037054
DC: 1F055; 1F0661

217 of 788
TI: Environmental protection and work safety considerations.
OT: Was beim Umwelt- und Arbeitsschutz zu beachten ist.
AU: Litzcke,-D; Klein,-KH
AD: Kristall Lackfabrik H. Muller & Co., Wuppertal, German Federal Republic.
SO: Holz-Zentralblatt. 1985., 111: 77, 1153-1154.
PY: 1985
LA: German
AB: A discussion, with reference to the application of finishes in the furniture industry, of W. German regulations regarding dangerous substances, max. concn. of fumes in the workplace, accident prevention during application of finishes, and air pollution control.
DE: Safety-; Finishes-; Pollution-; German-Federal-Republic; Furniture-; industry-
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02310
UD: 9211
AN: F037062
DC: 1F027; 1F055; 1F0661; 1F028

218 of 788
TI: The Ligna '85 fair.
SO: Holz-Zentralblatt. 1985., 111: 80, 1189-1215; 19 pl.
PY: 1985
LA: German
AB: A special number containing 3 reports based on exhibits at the Ligna International Exhibition of Machinery and Equipment for the Forest Products Industry, held in Hanover on 15-21 May 1985. [Innovations for furniture manufacture at the Ligna fair - the trend towards flexible processing systems is clear.] Viele Ligna-Neuheiten fur die Mobelfertigung. Der Trend zu flexiblen Fertigungssystemen wurde deutlich sichtbar. 1189-1192 [4 pl.] [The machinery industry promotes new types of panels.] Die Maschinenindustrie fordert neue Plattenarten. 1192-1194, 1197-1199 [6 pl.] Current trends in the manufacture of particleboard, OSB,

MDF, etc. [Machines and equipment for sawmilling and woodworking.] Maschinen und Gerate fur Sageindustrie und Holzbearbeitung. 1205-1208, 1213-1215 [9 pl.].
DE: Furniture-; manufacture-; Particleboard-; Moulded-products; Sawmilling-; machinery-; Woodworking-; Europe-
GE: Europe-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02300
UD: 9211
AN: F037313
DC: 1F0214; 1F0435; 1F066; 1F073

219 of 788
TI: Timber selection by properties - the species for the job. Volume 2. Furniture.
AU: Webster,-C; Taylor,-V; Brazier,-JD
AD: Princes Risborough Lab., Building Res. Est., Princes Risborough, Aylesbury, Bucks. HP17 9PX, UK.
SO: 1984, 90 pp.; PR. Princes Risborough, Bucks., UK; Building Research Establishment.
PY: 1984
LA: English
AB: [See FPA 2, 218] Assistance in the selection of materials is given in two ways: (a) property tables and (b) timbers and panel product tables. In (a), a table is presented for each end use (e.g. chair frames etc., cabinet work, outdoor furniture); the essential properties are listed alongside the preferred and acceptable levels for that property. In type (b) tables (again one for each end use) an assessment of property level is given, on a 5-point scale, for each relevant property and for each type of material used, including a large number of different timbers, particleboards, plywoods, fibreboards and other panels.
DE: Furniture-; raw-materials; Wood-properties; uses-; Wood-utilization
GE: UK-
PT: Unnumbered-Whole
AV: £11.75
IS: 0-11-671367-4
CAB: 1F Forest-Products-Abstracts 1985 008-02480
UD: 9211
AN: F040837
DC: 1F066; 1F030

220 of 788
TI: The forest-related industry of Taiwan.
AU: Tsay,-CW; Wang,-GY; Ku,-YC; Liao,-KF; Chen,-TY; Tsay,-FL; Chang,-FC
CA: Taiwan, Chinese Forest Products Association.
AD: Dep. For., Nat. Taiwan Univ., Taipei, Taiwan.
SO: Forest-Products-Industries. 1982., 1: 1, 27-68; 11 ref.
PY: 1982
LA: Chinese

AB: Seven papers are presented, each giving statistics and a discussion of a particular industry: Tsay, C.W. The outlook of Taiwan's plywood industry. 27-33. Wang, G.Y. The furniture industry of Taiwan - present status and future prospect. 34-38. Ku, Y.C. The pulp industry of Taiwan - present status and future prospect. 39-43. Liao, K.F. The sawmill industry. 44-51. Chen, T.Y. Particleboard and fibreboard. 52-59 [5 ref.] Tsay, F.L. Wood cement board in Taiwan. 60-62. Chang, F.C. The papermaking industry of Taiwan - present status and future prospect. 63-68 [6 ref.]
DE: Plywood-; industry-; Furniture-; Particleboards-; Fibreboards-; Taiwan-; wood-cement; sawmilling-; pulp-and-paper-industry; forest-products-industries
GE: Taiwan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02302
UD: 9211
AN: F041566
DC: 1F0215; 1F070; 1F081

221 of 788
TI: Thirty-eighth session, held at the Palais des Nations, Geneva, 13-17 Oct. 1980.
CA: Economic Commission for Europe, Timber Committee.
SO: 1980, 182 pp.; Restricted availability. Geneva, Switzerland.
PY: 1980
LA: English
AB: A collection of 14 papers, including a 66-page report on the session [Paper No. ECE/TIM/17] and reports on the following meetings: Symposium on economic and technical developments in the furniture industry, Poznan (Poland) 5-10 Nov. 1979 [TIM/SEM.10/2. See FPA 4, 1515]; Activities of the team of specialists on stress grading and finger-jointing of coniferous sawnwood [TIM/R.58]; Symposium on wood-based panels in the 1980s: economic and technical perspectives, Helsinki (Finland) 12-16 May 1980 [TIM/SEM.11/2]; and Seminar on the production, marketing and use of finger-jointed sawnwood, Hamar (Norway) 15-19 Sept. 1980 [TIM/SEM.12/2].
DE: Conferences-; ECE-Timber-Committee-38th-session; Furniture-; Grading-; Panels-; Joints-timber; European-Communities
GE: European-Communities
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1985 008-02572
UD: 9211
AN: F042031
DC: 1F0119; 1F0214
SM: BN/Int.

222 of 788
TI: How to cut down the production cost of small scale furniture manufacturing.
AU: Lin,-TY
SO: Forest-Products-Industries. 1983, recd. 1985., 2: 3, 100-103.

PY: 1983
LA: Chinese
DE: Furniture-; manufacture-; economics-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02846
UD: 9211
AN: F042899
DC: 1F066

223 of 788
TI: Requirements and possibilities of microelectronics in the automation of the East German forest products industry.
OT: Erfordermisse und Moglichkeiten der Mikroelektronik zur Automatisierung in unserer Holzindustrie.
AU: Fischer,-R
AD: Sekt. Verarbeitungs- und Verfahrenstech., TU Dresden, German Democratic Republic.
SO: Holztechnologie. 1984., 25: 2, 62-65; BLL.
PY: 1984
LA: German
LS: Russian, English
AB: A general discussion relating to applications of computer technology in sawmilling and woodworking during furniture manufacture. A schematic representation is shown of data flow during 9 stages of sawn timber production.
DE: German-Democratic-Republic; computer-techniques; Furniture-; Woodworking-; Sawmilling-
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02593
UD: 9211
AN: F044107
DC: 1F0129; 1F043; 1F0661

224 of 788
TI: Automatic measuring device for the determination of surface irregularities in finished furniture surfaces.
OT: Automatische Messplatz zur Bestimmung der Oberflachenunruhe von endbehandelten Mobeloberflachen.
AU: Devantier,-B
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1984., 25: 2, 67-68; 7 ref. BLL.
PY: 1984
LA: German
LS: Russian, English
AB: A system incorporating the K1002/K1003 computer is described. Surface profiles of surface press-laminated particleboard panels are shown.
DE: Furniture-; raw-materials; Particleboards-; testing-; wood-properties; Surface-quality-of-wood-products; Computer-techniques
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1985 008-02594
UD: 9211
AN: F044115
DC: 1F0129; 1F073

225 of 788
TI: The characteristics of woods for furniture manufacturing.
AU: Wang,-SY
SO: Forest-Products-Industries. 1983, recd. 1985., 2: 4, 58-81; 9 ref.
PY: 1983
LA: Chinese
DE: Furniture-; raw-materials; manufacture-; Taiwan-; timbers-
GE: Taiwan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-02847
UD: 9211
AN: F044581
DC: 1F0661; 1F030

226 of 788
TI: Hole boring in box-frame furniture manufacture.
OT: Bohren in der Kastenmobel-Fertigung.
AU: Soine,-H
SO: Holz-als-Roh--und-Werkstoff. 1985., 43: 5, 163-169; 2 pl.
PY: 1985
LA: German
LS: English
AB: A discussion of current technology for the boring of holes prior to dowelling of furniture elements and mounting of fittings. Four machine models, including 3 with CNC, are described.
DE: Boring-and-drilling; Furniture-; manufacture-; computer-techniques; Woodworking-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03147
UD: 9211
AN: F049800
DC: 1F0435; 1F0129; 1F0661

227 of 788
TI: Roll coating machines.
OT: Walzlackiermaschinen.
AU: Soine,-H
SO: Holz-als-Roh--und-Werkstoff. 1985., 43: 7, 283-285.
PY: 1985
LA: German
LS: English
AB: A discussion of the design and operation of roll spreader lacquering and staining machines. Six roll configurations for lacquer spreading using the TLX system manufactured by Hymmen (W. Germany) are illustrated.

DE: Finishes-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03190
UD: 9211
AN: F050590
DC: 1F055

228 of 788
TI: Proceedings of the rattan seminar, 2-4 October 1984, Kuala Lumpur, Malaysia.
AU: Wong,-KM; Manokaran,-N (Editors); Xu,-HC; Basu,-SK; Silitonga,-T; Aminuddin,-M; Rahim,-S; Lee,-HS; Salita,-AA; Fernando,-ES; Vongkaluang,-I
AD: For. Res. Inst., Kepong, Malaya.
SO: 1985, 247 pp.; many ref. Kepong, Malaya; Rattan Information Centre.
PY: 1985
LA: English
AB: The proceedings of a conference jointly organized by the FRI Kepong, the IDRC and the FAO/UNDP Asia Pacific Forest Industries Development Group. The 23 papers are divided into 5 sections: Propagation and nursery practices; Ecology, silviculture and conservation; Properties, pests, diseases and preservation; Processing, utilization and product development; and Extension and information dissemination. Most of the papers are noticed elsewhere and can be found under 'Conferences' in the relevant Subject Indexes. These subject-oriented papers are followed by 6 country reports which include statistics on rattan supply and trade and exports of rattan furniture: China (Xu, H.C.); India (Basu, S.K.); Indonesia (Silitonga, T); Malaysia (Aminuddin, M.; Rahim, S.; Lee, H.S.); Philippines (Salita, A.A.; Fernando, E.S.); and Thailand (Vongkaluang, I.). Recommendations are made on strategies for development.
DE: Conferences-; Rattan-seminar; Canes-and-rattans; China-; India-; Indonesia-; Malaysia-; Philippines-; Thailand-; Furniture-; economics-; raw-materials; Trade-
GE: Asia-
PT: Unnumbered-Whole
CAB: 0F Forestry-Abstracts 1985 046-06497; 1F Forest-Products-Abstracts 1985 008-02993
UD: 9211
AN: F050697
DC: 0F0119; 1F0119; 0F0397; 1F0934; 1F10
SM: BN/Malaysia/For. Dep./For. Res. Inst./Rattan Info. Cent./Misc.

229 of 788
TI: [Properties and utilization of rattans].
AU: Yudodibroto,-H (et-al.); Choo,-KT; Daljeet-Singh,-K; Tongacan,-AL; Sipila,-NK; Raja-Fuziah,-RTU
AD: Fac. For., Gadjah Mada Univ., Yogyakarta, Indonesia.
SO: Proceedings of the rattan seminar, 1984, Kuala Lumpur, Malaysia [edited by Wong, K.M.; Manokaran, N.]. 1985., 115-192; many ref.

Kepong, Malaya; Rattan Information Centre.
PY: 1985
LA: English
AB: Yudodibroto, H. Anatomy, strength properties and the utilization of some Indonesian rattans. 117-122 [11 ref.] Calamus inops, C. symphysipus and C. cf. conirostris, all from Celebes. Yudodibroto, H. Processing techniques applied by small-scale rattan manufacturing companies in Indonesia. 145-154 [8 ref.] Some trade data are included. Choo, K.T.; Daljeet-Singh, K. Rattan processing and utilization in Peninsular Malaysia. 155-161 [5 ref.] Exports of raw cane are included. Tongacan, A.L. Proposed Philippine grading rules for unsplit rattan and its derivatives. 169-178 [8 ref.] Sipila, N.K. Rattan furniture design for small-scale industries in Thailand. 179-184 Raja Fuziah, R.T.U. Problems and prospects of rattan handicrafts. 185-192 [2 ref., 1 pl.] Baskets, mats etc. from Malaysia. Three papers are noticed separately and are indexed under 'Conferences'.
DE: Conferences-; Rattan-seminar; Canes-and-rattans; Trade-; Calamus-conirostris; Calamus-inops; Calamus-symphysipus; Indonesia-; Calamus-; Wood-anatomy; Malaysia-; handicrafts-; Woodworking-; Furniture-; industry-; raw-materials; Thailand-; Grading-; regulations-; Philippines-; Strength-of-wood; tensile-strength
GE: Indonesia-; Malaysia-; Philippines-; Thailand-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03300
UD: 9211
AN: F050700
DC: 1F0934; 1F030; 1F046; 1F065; 1F0661; 1F10
SM: BN/Malaysia/For. Dep./For. Res. Inst./Rattan Info. Cent./Misc.

230 of 788
TI: Preservation problems of rattan in Indonesia (with emphasis on powder-post beetle infestation).
AU: Sulthoni,-A
AD: Fac. For., Gadjah Mada Univ., Yogyakarta, Indonesia.
SO: Proceedings of the rattan seminar, 1984, Kuala Lumpur, Malaysia [edited by Wong, K.M.; Manokaran, N.]. 1985., 137-142; 14 ref. Kepong, Malaya; Rattan Information Centre.
PY: 1985
LA: English
AB: Methods of processing and protection of rattan canes are briefly reviewed (also noting 4 species of borers recorded in the forest). Observations in cottage industries in the Yogyakarta area, where 8 species or groups of commercial rattans are distinguished, showed that powder-post beetle attack (by Dinoderus spp.) was common both in raw materials and in furniture. Calamus manan was highly resistant, C. caesius and C. scipionum were resistant, and the unidentified but commonly used species 'kokrok' was highly susceptible to powder-post beetle. Results suggest that preservative treatments should be developed for the susceptible species.
DE: Canes-and-rattans; Calamus-; Calamus-caesius; Calamus-manan;

Calamus-ornatus; Calamus-scipionum; Daemonorops-melanochaetes; Dinoderus-; Conferences-; Rattan-seminar; Wood-borers; damage-; prevention-; resistance-; Indonesia-; Furniture-; manufacture-; Pest-resistance; commodities-; rattans-; control-
GE: Indonesia-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03174
UD: 9211
AN: F050751
DC: 1F0532; 1F0934; 1F0661
SM: BN/Malaysia/For. Dep./For. Res. Inst./Rattan Info. Cent./Misc.

231 of 788
TI: Design of cross-sectional profiles for selected furniture parts.
OT: Untersuchungen zur Bestimmung von Querschnitten ausgewahlter Mobelteile.
AU: Dziegielewski,-S; Adanowicz,-J
AD: Agric. Acad. Poznan, Poland.
SO: Holztechnologie. 1984., 25: 3, 135-137; 12 ref. BLL.
PY: 1984
LA: German
LS: Russian, English
AB: The strength of timber (Scots pine, Norway spruce, silver fir, poplar) elements, machined for use in upholstery frames, was studied in static bending load tests. Theoretical analyses were made of min. amounts of materials required for furniture construction.
DE: Furniture-; raw-materials; Strength-of-wood; bending-strength; Pinus-; Picea-; Abies-; Populus-; Pinus-sylvestris; Picea-abies; Abies-alba
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03227
UD: 9211
AN: F051189
DC: 1F0661; 1F0323

232 of 788
TI: Industrial robot technology as a means of increasing efficiency.
OT: Industrierobotertechnik zur komplexen Rationalisierung.
AU: Kipke,-U
AD: VEB Mobelkombinat Zeulenroda, German Democratic Republic.
SO: Holztechnologie. 1984., 25: 4, 186-188; 2 pl. BLL.
PY: 1984
LA: German
LS: Russian, English
AB: An illustrated report in which technology for the processing of furniture elements, furniture carcass assembly, etc. in use in a factory in E. Germany is described and its economic and social benefits discussed.
DE: German-Democratic-Republic; furniture-; manufacture-;

Forest-products-industries; automation-
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03228
UD: 9211
AN: F052258
DC: 1F0661; 1F0129

233 of 788
TI: Materials-saving design of solid timber frames for couches. 1.
OT: Materialsparende Dimensionierung von Vollholzrahmen fur Liegen. Teil 1.
AU: Galgoczi,-G; Toth,-S
AD: Furniture Ind. Dev. Inst., Budapest, Hungary.
SO: Holztechnologie. 1984., 25: 4, 197-200; 9 ref. BLL.
PY: 1984
LA: German
LS: Russian, English
AB: Equations are presented for determining the optimal cross-section of softwood frame elements, based on the max. permissible bending and shear stress in solid timber furniture frames.
DE: Furniture-; raw-materials; Statistical-methods; Strength-of-wood; bending-strength; shear-strength; Structures-; strength-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03229
UD: 9211
AN: F052282
DC: 1F0661; 1F0129; 1F0323

234 of 788
TI: Raw material reserves for the manufacture of sliced veneer.
AU: Dement'ev,-VN; Boiko,-SM
AD: Dal'NIILP, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1984., No. 7, 15-16; BLL.
PY: 1984
LA: Russian
AB: Although veneer hardwoods are in short supply in the furniture industry of the USSR, there are large reserves of yellow birch (Betula costata) in the Soviet Far East. Some wood properties are tabulated in comparison with B. pendula, Fraxinus mandshurica (the principal veneer species) and Quercus mongolica, showing that yellow (unlike common) birch is a hard-wooded species. Its utilization has been hindered by the high proportion of false heartwood. Preliminary tests showed that the false heartwood was similar in properties to sapwood, but would generally require application of a toner during finishing. Slicing trials on B. costata were made at a furniture combine in Khabarovsk, from which veneer yields and grades are tabulated in relation to log diam. and grade. A code of practice was also developed for this species.

DE: Defects-in-wood; abnormal-heartwood; Betula-costata; Betula-pendula; Fraxinus-mandshurica; Quercus-mongolica; Wood-properties; Furniture-; raw-materials; Veneers-; finishes-; slicing-; USSR,-Far-East
GE: USSR-; Far-East
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03231
UD: 9211
AN: F052347
DC: 1F071; 1F0323; 1F0661; 1F046

235 of 788
TI: Furniture and interior trim - handbook of timber design.
OT: Mobel und Innenausbau. Handbuch der Holzkonstruktionen.
AU: Pracht,-K
SO: 1983, 272 pp. Leinfelden-Echterdingen, German Federal Republic; A. Koch.
PY: 1983
LA: German
AB: A book designed for students and practical workers, covering materials, methods, and design.
DE: Books-; furniture-; buildings-; fittings-
PT: Unnumbered-Whole
CI: review in Holztechnologie 25, 218-219. BLL.
CAB: 1F Forest-Products-Abstracts 1985 008-02978
UD: 9211
AN: F052444
DC: 1F0111; 1F066

236 of 788
TI: Analysis of the factors affecting the yield of dimension stock.
AU: Surovtseva,-LS
AD: Lesotekh. Inst., Archangel, USSR.
SO: Lesnoi-Zhurnal. 1985., No.1, 60-65.
PY: 1985
LA: Russian
AB: An analytical study was made of the four main factors causing loss when converting lumber to dimension stock: (a) the formation of sawdust; (b) cutting out defective sections; (c) losses bacause the length of the lumber is not a multiple of the length of the dimension stock; and (d) losses because the width of the lumber is not the same as that of the dimension stock. Graphs and formulae are presented for planning and determining the yield of dimension stock and the vol. of waste for any given set of circumstances.
DE: Sawmilling-; outturn-; Furniture-; raw-materials
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03135
UD: 9211
AN: F053670
DC: 1F0431; 1F066

237 of 788
TI: Investigating the characteristics of segmental and gate-type hopper unloading installations.
AU: Rykov,-EN
AD: Lutskii Filial, Politekh. Inst., L'vov, USSR.
SO: Lesnoi-Zhurnal. 1985., No.1, 73-76; 1 ref.
PY: 1985
LA: Russian
AB: Studies were made of the process of extracting single items (e.g. straight or curved dimension stock, etc.) from the main stock in a hopper. Tensometric investigations were made of the interaction between the segments, gate and vibrating bottom of hoppers and the mass of items in the hoppers. The dynamic and static pressures on the hopper bottom were determined, and the vibration was shown in the form of a generalized parameter.
DE: Furniture-; raw-materials; Sorting-; sawnwood-; Sawmilling-; wood-handling
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03130
UD: 9211
AN: F053700
DC: 1F043; 1F046; 1F066

238 of 788
TI: Recent studies on formaldehyde emission from furniture.
OT: Neuere Erkenntnisse zur Formaldehydabgabe von Mobeln.
AU: Marutzky,-R; Flentge,-A
AD: WKI, 3300 Braunschweig, German Federal Republic.
S O :
WKI-Mitteilungen,-Wilhelm-Klauditz-Institut,-German-Federal-Republic. 1985., No. 394, 6 pp.; Reprinted from Holz- und Kunststoffverarbeitung No. 1/85.
PY: 1985
LA: German
LS: English, French
AB: A discussion of factors affecting formaldehyde emission (FE) from furniture, including: constructional materials used (particleboard, MDF, plywood); adhesives and finishes; overlays and veneer; and other factors. It is noted that the formaldehyde content of glues and finishes used in furniture are often higher than that of panels used for furniture construction. Overlays are evaluated for effectiveness in limiting FE. Potential FE from finsihed tables, chairs, and cupboards is discussed, and the introduction of standards for FE from furniture is considered.
DE: Furniture-; raw-materials; Formaldehyde-emission; particleboards-; plywood-; Adhesives-; health-hazards; uses-; Finishes-; Overlays-; Moulded-products
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-00029
UD: 9211
AN: F054064

DC: 1F028; 1F0661; 1F072; 1F073; 1F074
SM: Reprint/2670

239 of 788
TI: Materials-saving chair design using angle joints with increased load-bearing capacity.
OT: Materialsparende Stuhlkonstruktionen durch Eckverbindungen mit erhohter Belastbarkeit.
AU: Moller,-A; Hassler,-G
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1984., 25: 6, 294-298; 1 pl. BLL.
PY: 1984
LA: German
LS: Russian, English
AB: A new type of screwed joint (a 'threaded pin joint', under E. German patent) is described using screws with 8 mm thread diam. and av. withdrawal resistance (in beech) of 237 N/mm. Axial forces are limited to the cylindrical surface of the screw (i.e. they are not transferred to the screw head). Results are reported of static and dynamic testing of these joints (in beech) under transverse loading. Design principles are presented for chairs made using the joining method, and several finished chairs are illustrated.
DE: Fagus-sylvatica; furniture-; joints-timber; screwed-joints; testing-; Wood-properties; screw-holding-properties
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03144
UD: 9211
AN: F054269
DC: 1F0433; 1F0661

240 of 788
TI: Materials-saving design of solid timber frames for couches. 2.
OT: Materialsparende Dimensionierung von Vollholzrahmen fur Liegen. Teil 2.
AU: Galgoczi,-G; Toth,-S
AD: Furniture Ind. Dev. Inst., Budapest, Hungary.
SO: Holztechnologie. 1984., 25: 6, 298-300; 6 ref. BLL.
PY: 1984
LA: German
LS: Russian, English
AB: Deflection under constant load is reported of solid timber (robinia, poplar, or pine) couch frames. Results confirm the validity of a theoretical model designed to optimize the utilization of furniture raw materials.
DE: Furniture-; raw-materials; testing-; Strength-of-wood; bending-strength; Robinia-; Populus-; Pinus-; Pinus-sylvestris; Robinia-pseudoacacia
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-03230
UD: 9211
AN: F054277
DC: 1F0661; 1F0323

241 of 788
TI: Establishment of wood waste-burning installations and their operational heat engineering.
OT: Fahulladektuzelo berendezesek letesitese es uzemi hotechnikai merese.
AU: Dosa,-C; Hegyi,-J
SO: Faipar. 1982., 32: 10, 300-305.
PY: 1982
LA: Hungarian
AB: A summary of 10-yr research results at the Furniture Development Institute, Hungary, analysing the properties of the wood and plastics for burning, the characteristics of the combustion process, and some process problems and ways of overcoming them. A related paper follows: Hegyi, J. [Application of wood waste-burning furnaces and experiences of their operation.] Fahulladek-tuzelesu kazanok alkalmazasa es uzemeltetesuk soran szerzett tapasztalatok. 306-308.
DE: Furniture-; manufacture-; research-; Hungary-; fuels-; burners-; residues-
GE: Hungary-
PT: Numbered-Part
CI: Hungarian Agricultural Review 32, 656, 657. En. BLL.
CAB: 1F Forest-Products-Abstracts 1986 009-00152
UD: 9211
AN: F058256
DC: 1F092; 1F029; 1F0661

242 of 788
TI: Material-saving dimensioning of wooden upholsterer's frameworks for single couches.
OT: Egyszemelyes heverok fa karpitkereinek anyagtakarekos meretezese.
AU: Galgoczi,-G; Toth,-S
SO: Faipar. 1983., 33: 10, 307-313.
PY: 1983
LA: Hungarian
AB: Upholsterer's frameworks account for 39% of the softwood used in furniture factories in Hungary. The softwood is largely imported and cannot be easily substituted. Structures are discussed that require a smaller cross-sectional area of lumber. Other possibilities are: end-jointing; and partial substitution of poplar or robinia.
DE: Furniture-; Robinia-pseudoacacia; Populus-; Hungary-; Joints-timber; glued-joints
GE: Hungary-
PT: Numbered-Part
CI: Hungarian Agricultural Review 33, 520. En. BLL.
CAB: 1F Forest-Products-Abstracts 1986 009-00123
UD: 9211
AN: F058280
DC: 1F0661

243 of 788
TI: New trends in the timber and wood products trade between East and West Germany?
OT: Neue Akzente im innerdeutschen Holz- und Holzwarenhandel?
SO: Holz-Zentralblatt. 1985., 111: 106, 1495.
PY: 1985
LA: German
AB: Statistics are presented and discussed on the value (DM) of lumber, wooden containers, domestic woodware, musical instruments, furniture, etc. supplied by E. Germany to W. Germany, and vice versa, in 1980-1985 (whole years and Jan.-June). Up to 1984, there was a steady growth in imports from E. Germany, but a slight reduction was observed in the 1st half of 1985 (especially noticeable in the case of furniture, down by 8.8%). In 1984, the overall trade balance for W. Germany was - DM428 800 000. It appears that stricter application of existing import control regulations is being exercised by W. Germany, in the face of continuing strong import pressure from E. Germany (to obtain foreign exchange, etc.).
DE: Timber-trade; international-trade; German-Federal-Republic; German-Democratic-Republic; statistics-; Furniture-; industry-; Wood-products; Trade-; Forest-products-industries; supply-balance
GE: German-Federal-Republic; German-Democratic-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-00199
UD: 9211
AN: F060382
DC: 1F10; 1F0214; 1F0661

244 of 788
TI: Special number: electronics in forestry and the forest products industry.
OT: Schwerpunktnummer 'Elektronik in der Forst- und Holzwirtschaft'.
AU: Krippner,-G (et-al.); Schlauch,-HD; Tschannen,-E; Stelzle,-W; Roth,-HD
SO: Holz-Zentralblatt. 1985., 111: 128, 1861...1894.
PY: 1985
LA: German
AB: A set of papers and short reports. Six papers are noticed here; topics covered in other articles include the use of computer technology by timber supply firms and timber agents in W. Germany, and developments in the use of computer technology at various forest products industry technical colleges etc. in W. Germany. Krippner, G. [Electronic measurement of roundwood - uses and requirements for application in sawmills.] Die elektronische Vermessung von Rundholz - Nutzen und Anforderungen fur den Sagewerker. 1861-1862. Schlauch, H.D. [Computer-aided design of prefabricated houses.] Computerunterstutztes Entwerfen (CAD) im Fertighausbau. 1862-1863, 1876. Tschannen, E. [Coordinated use of computers in Swiss forestry.] Koordinierter Computereinsatz im Dienst der schweizerischen Forstwirtschaft. 1864-1866. - For

preparation of felling registers and reports on timber sales, market conditions, operational economics, etc. Stelzle, W. [Modern measurement techniques in furniture testing - a stimulus to guaranteed operational quality.] Moderne Messtechnik in der Mobelprufung - als Anregung zur betrieblichen Qualitatssicherung. 1879-1880. [Practical use of the 'PanOpt' particleboard optimization system.] Die Spanplattenoptimierung 'PanOpt' in der Praxis. 1880-1882. - A computer-based system for dividing-up large panels, in use at the Kronospan factory in W. Germany. Roth, H.D. [Recording and evaluation of measurement data in the forest products industry - the example of a planing mill producing profiled lumber.] Messdatenerfassung und -auswertung in der Holzindustrie am Beispiel eines Hobelwerkes fur Profilbretter. 1886-1887.
DE: Computer-techniques; measurement-; sawmilling-; buildings-; furniture-; particleboards-; timber-trade; Switzerland-; German-Federal-Republic; roundwood-; design-; prefabrication-; testing-; processing-; Planing-
GE: German-Federal-Republic; Switzerland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1986 009-00238
UD: 9211
AN: F065449
DC: 1F0129
SM: F-P

245 of 788
TI: A making [manufacturing] process of bamboo veneers and their decoration for furniture.
AU: Yin,-DH
SO: Bamboo-Research. 1982., 1: 1, 87-90.
PY: 1982
LA: Chinese
DE: Bamboos-; uses-; Veneers-; raw-materials; Furniture-; manufacture-
GE: China-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00598
UD: 9211
AN: F992935
DC: 1F0661; 1F075; 1F0934
SM: BN/China/Misc.

246 of 788
TI: Hygienic qualities of some furniture constructional and upholstery materials.
AU: Popova,-VI; Ionkina,-SF
AD: VPKTIM, USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1983., No. 7, 5-6; BLL.
PY: 1983
LA: Russian

AB: A high electrostatic charge on the surface can be harmful and also attracts large numbers of microorganisms. Electric field intensity (V/cm) was measured under dry winter conditions, with or without charging, on a wide range of materials including painted or unpainted plywood and veneered particleboard. The most highly charged of all the materials was veneered particleboard finished with polyester paint. Plywood was less electrostatic than particleboard.
DE: Furniture-; raw-materials; Paints-; Wood-properties; electrical-properties; Particleboards-; finishes-; overlays-; Plywood-
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00866
UD: 9211
AN: F997970
DC: 1F0661; 1F0329; 1F055; 1F070

247 of 788
TI: Industrial surface treatment of wooden mouldings.
OT: Industrielle Oberflachenbehandlung von Formteilen aus Holz.
AU: Bohme,-P
SO: 1984, 152 pp.; many pl. Leipzig, German Democratic Republic; VEB Fachbuchverlag.
PY: 1984
LA: German
AB: This book presents an introduction to the materials and methods used in the manufacture of mouldings for furniture and building interiors, and to the application of liquid or solid coatings to finished mouldings.
DE: Books-; moulding-; overlays-; finishes-; Furniture-; manufacture-
PT: Unnumbered-Whole
AV: DM49.00
CI: review in Holz-Zentralblatt 110, 2254. BLL.
CAB: 1F Forest-Products-Abstracts 1985 008-00659
UD: 9211
AN: F998062
DC: 1F0111; 1F0434; 1F055; 1F075; 1F066

248 of 788
TI: Wooden upholstery frames made from glue-laminated members.
OT: Drewniane ramy tapicerskie z elementow warstwowo klejonych.
AU: Kapica,-L; Dziegielewski,-S; Proszyk,-S; Bilski,-A
AD: Katedry Meblarstwa Akademii Rolniczej, Poznan, Poland.
SO: Przemysl-Drzewny. 1983., 34: 10, 9-14; 14 ref. BLL.
PY: 1983
LA: Polish
LS: English, Russian
AB: The construction and joining of glue-lam furniture frames are discussed. Optimum cross sections of frame parts are given for different designs. The technology is also discussed of using a

gluing method involving separate spreading of a urea adhesive and a hardener.
DE: Furniture-; manufacture-; raw-materials; Gluing-; Laminated-wood; joints-timber; uses-; Adhesives-; Poland-; glued-joints
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00865
UD: 9211
AN: F999662
DC: 1F066; 1F072; 1F079

249 of 788
TI: Remarkable insects in and around dwellings in 1983.
OT: Opmerkelijke insekten in en om gebouwen in 1983.
AU: Jonge,-JT-de; De-Jonge,-JT
AD: Hoofdinspektie Milieuhygiene, Afdeling Bestrijding van Dierplagen, Postbus 350, 6700 AJ Wageningen, Netherlands.
SO: Entomologische-Berichten. 1984., 44: 10, 151-153; 14 ref.
PY: 1984
LA: Dutch
LS: English
AB: The arthropod species about which official enquiries were received in the Netherlands in 1983 because of their occurrence in and near dwellings included the cockroach Ectobius sylvestris (Poda), which entered buildings in large numbers in September, mainly as nymphs, and Phagocarpus purmundus (Harris), which was collected on wood treated with tar oil preservatives. A nest of Xylocopa violacea (L.), which is a rare species in the Netherlands, was found in Utrecht in early November. Adults of Oligomerus ptilinoides (Woll.) emerged in 1981 and also in June 1983 from a cherrywood sideboard purchased in France in 1978.
DE: Xylocopa-violacea; distribution-; Netherlands-; Oligomerus-ptilinoides; Phagocarpus-purmundus; commodities-; wood-; furniture-; Ectobius-sylvestris; habitats-; dwellings-; Prunus-avium; Wood-borers; damage-; Insect-pests; Wood-preservatives; creosote-
GE: Netherlands-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00327
UD: 9211
AN: E192668
DC: 1F0532; 1F0539; 1F055
SM: CIE

250 of 788
TI: Possibilities for the utilization of the wood of acacia (Robinia pseudoacacia L.) in the furniture industry.
AU: Kavalov,-A; Rusanov,-H; Petrov,-S
SO: D"rvoobrabotvashcha-i-Mebelna-Promishlenost. 1982., 25: 1; 6 ref.
PY: 1982

LA: Bulgarian
AB: A brief review is given of the industrial stocks and the growing conditions for robinia in Bulgaria. Technological properties were tested for logs of diam. 0.25-0.30 m from a coal-mine site in Pernik. Studies were made on: sawing, drying, longitudinal 'flat' milling, gluing, grinding, staining and varnishing. Assessments were made of shrinkage, warping, smell, colour etc. and the effects of steaming on these characters was studied. Its use as solid wood, veneer, plywood and other products is discussed.
DE: Robinia-pseudoacacia; Bulgaria-; furniture-; raw-materials; industry-; Sawmilling-; Robinia-
GE: Bulgaria-
PT: Numbered-Part
CI: Abstracts of Bulgarian Scientific Literature, Forestry and Forest Industries 2, 197. BLL.
CAB: 1F Forest-Products-Abstracts 1984 007-00236
UD: 9211
AN: F887821
DC: 1F066; 1F043; 1F0214

251 of 788
TI: Utilization of lesser-used and small-diameter tree species for furniture manufacture.
AU: Cuaresma,-TG
AD: FPRDI, NSTA, College, Laguna 3720, Philippines.
SO: Forpride-Digest. 1982., 11: 1/2, 29-38; 9 ref.
PY: 1982
LA: English
AB: A discussion of methods for broadening the wood resource base of the expanding Philippine furniture industry with particular reference to under-utilized species following the restrictions imposed on felling of certain key species including narra (Pterocarpus indicus) which formerly made up 40% of consumption. A list is given of 40 species identified by the Forest Products Research and Development Institute (FPRDI) as good potential furniture material in addition to the 12 species traditionally used. A method is recommended for the evaluation of these and other new species.
DE: Philippines-; furniture-; raw-materials
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-00237
UD: 9211
AN: F891845
DC: 1F0661

252 of 788
TI: A financial analysis of furniture parts from short bolts.
AU: Huber,-HA; Rosen,-HN; Stewart,-HA; Harsh,-SB
AD: Dep. For., Michigan State Univ., E. Lansing, MI 48824, USA.
SO: Forest-Products-Journal. 1983., 33: 9, 55-58; 14 ref.

PY: 1983
LA: English
AB: A computer program, the Furniture Bolt Cutting Program, was developed to provide information on cost, yields, and quantities of 4/4 [1-inch] parts produced by a manufacturer of furniture dimension stock from short logs [less than 8ft] of black walnut, black cherry [Prunus serotina], yellow poplar, soft maple [Acer saccharinum], and aspen [Populus sp.]. The Furniture Bolt Cutting Program was used in an economic analysis to compare costs of parts produced from short logs with the same parts produced from standard lumber grade material. Determination of break-even points between grade lumber and short log material showed black walnut to be $455/MBF [thousand bd ft]; aspen, $202/MBF; soft maple, $90/MBF; black cherry, $68/MBF; and yellow poplar, $61/MBF. When the sum of the bolt sawing and stumpage costs was less than the break-even point for a particular species, then bolts were economically advantageous. In general, the cost saving that can be achieved through using short log-produced parts was greater for high-value or high-yield bolt species than for lower valued, low-yield bolt species. From authors' summary.
DE: Furniture-; raw-materials; economics-; Sawmilling-; log-size; USA-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-00705
UD: 9211
AN: F898270
DC: 1F066; 1F0431; 1F10; 1F0129

253 of 788
TI: Marketing of wooden furniture in the city of Ibadan.
OT: [Thesis Summary].
AU: Odoemena,-CS
AD: Dep. For. Resour. Mgt., Univ. Ibadan, Nigeria.
SO: Forest-Products-Abstracts. 1983., 6: 11, 319.
PY: 1983
LA: English
DE: Theses-; furniture-; Nigeria-; marketing-; industry-
GE: Nigeria-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-00841
UD: 9211
AN: F905102
DC: 1F10; 1F0661

254 of 788
TI: Standard specification for phenolic and aminoplastic resin adhesives for the laminating and finger-jointing of timber, and for furniture and joinery.
CA: South Africa, Council of the South African Bureau of Standards.
AD: SABS, Private Bag X191, Pretoria 0001, Republic of South Africa.

SO: South-African-Standard. 1981., No. SABS 1349-1981, 26 pp.; PR.
PY: 1981
LA: English, Afrikaans
DE: South-Africa; adhesives-; standards-; Furniture-; Joinery-
GE: South-Africa
PT: Numbered-Whole
IS: 0-626-06078-8
CAB: 1F Forest-Products-Abstracts 1984 007-00767
UD: 9211
AN: F906508
DC: 1F079; 1F0115; 1F0661

255 of 788
TI: New technology for low-grade hardwood utilization: System 6.
AU: Reynolds,-HW; Gatchell,-CJ
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1982., No. NE-504, i + 9 pp.; 4 ref., 6 pl.
PY: 1982
LA: English
AB: [See FPA 5, 3314] Describes a highly-automated system for converting small diam. (7.5 to 12.5 inches) hardwoods to boards ('standard-size blanks') made of strips 31/4 to 4 inches wide glued edge-to-edge, for use in furniture and kitchen cabinets.
DE: Panels-; processing-; Sawmilling-; automation-; log-size; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-00718
UD: 9211
AN: F907458
DC: 1F072; 1F0431; 1F0661
SM: BN/USA

256 of 788
TI: Rough-part sizes needed from lumber for manufacturing furniture and kitchen cabinets.
AU: Araman,-PA
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1982., No. NE-503, i + 9 pp.
PY: 1982
LA: English
AB: Based on a survey of US manufacturers.
DE: Furniture-; raw-materials
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-00706
UD: 9211
AN: F907466
DC: 1F066

SM: BN/USA

257 of 788
TI: Workshop on techniques of surface preparation.
OT: Journee d'information sur les techniques de preparation des surfaces.
AU: Parisot,-M; Introvigne,-M; Rougier; Cheron; Tagliabue
SO: Courrier-de-l'Industriel-du-Bois-et-de-l'Ameublement,-France. 1982., No. 40, 30 pp.
PY: 1982
LA: French
AB: The workshop was jointly organized by CTB, CLIFAL [Centre de Liaison et d'Information des Fournisseurs de l'Ameublement, de la Literie, de l'Agencement et de la Decoration], CPAL [Centre de Productivite des Industries de l'Ameublement et de la Literie] and UNIFA [Union Nationale des Industries Francaises de l'Ameublement]. Six reports are included in the dossier: 1. Parisot, M. [General principles of sanding] Principes generaux du poncage. 4 pp. 2. Introvigne, M. [Abrasives] Les abrasifs. 4 pp. 3. Diot, M. [Conditions necessary for utilizing abrasives] Les conditions de mise en oeuvre des abrasifs. 7 pp. 4. Diot, M.; Rougier [Machines with sanding belts in the wood industry] Les machines utilisant des bandes abrasives dans l'industrie du bois. 7 pp. 5. Cheron; Tagliabue [The sanding of mouldings] Le poncage des moulures. 4 pp. 6. Introvigne, M.; Diot, M. [Using abrasives, and remedies for sanding flaws] Utilisation des abrasifs et remedes aux eventuels incidents de poncage. 4 pp.
DE: Sanding-; Surface-quality-of-wood-products; Planing-; Furniture-; France-
GE: France-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-00942
UD: 9211
AN: F908730
DC: 1F0434

258 of 788
TI: Decorative reliefs on the surface of particleboards.
AU: Gordienko,-VV
AD: UkrNPMO, Ukrainian SSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1982., No. 4, 12-13; BLL.
PY: 1982
LA: Russian
AB: The reliefs, typically 2.5-3 mm high, are applied by stamping or pressing a die or mould on to plain or overlaid boards in furniture manufacture. Details are given of pressing conditions and the technical design and manufacture of the moulds.
DE: Moulded-products; manufacture-; Furniture-; Particleboards-; processing-
GE: Ukrainian-SSR
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1984 007-00990
UD: 9211
AN: F908918
DC: 1F073; 1F0432; 1F0661

259 of 788
TI: CROMAX. A crosscut-first computer simulation program to determine cutting yield.
AU: Giese,-PJ; Danielson,-JD
SO: General-Technical-Report,-Forest-Products-Laboratory,-USDA-Forest-Service. 1983., No. 38, 39 pp.; 9 ref., 1 pl.
PY: 1983
LA: English
AB: CROMAX is a computer program, written in ASCII FORTRAN, that simulates the crosscut then rip operations that are commonly used in furniture manufacture. The program calculates cutting yields from individual boards, based on board size and defect location. Expected yields from various grades and grade mixes can be calculated. Flow diagrams and a program listing are included.
DE: Economics-; computer-techniques; simulation-; Sawmilling-; log-breakdown-methods; Furniture-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-01442
UD: 9211
AN: F918212
DC: 1F10; 1F043; 1F0129
SM: BN/USA

260 of 788
TI: Industrial robot technology in the forest products industry.
OT: Industrierobotertechnik in der Holzindustrie.
AU: Damm,-JH (et-al.); Zachau,-H; Schniese,-J; Frenzel,-L; Poleganov,-D
SO: Holzindustrie. 1982., 35: 4, II, 97-108, 111-119; 36 ref., 1 pl. BLL.
PY: 1982
LA: German
AB: A special number containing 7 papers; two are noticed elsewhere and 5 here. Damm, J.H. [Strategy for the use of robots in the Forest Products and Cultural Goods Industries section of the [E. German] Ministry of Regional Industry and Food Industry.] Strategie des Robotereinsatzes im Bereich der Holz- und Kulturwarenindustrie des MBL. 97-101 [11 ref.] Zachau, H. [Possibilities for the use of industrial robots in the forest products and furniture industries.] Moglichkeiten des Einsatzes von Industrierobotern in der Holz- und Mobelindustrie. 102-104. Schniese, J. [Industrial robots for technological processes.] Industrieroboter fur technologische Prozesse. II, 112-113. Frenzel, L. [Preparation for, and use of industrial robot technology at the Leipzig Wood-based Materials, Hardware, and Machinery Combine.] Erfahrungen bei der Vorbereitung

und beim Einsatz der Industrierobotertechnik im Kombinat Holzwerkstoffe, Beschlage und Maschinen, Leipzig. 116-118. [Use of robots in woodworking.] Einsatz von Robotern in der Holzbearbeitung. 118-119. - Including robots manufactured in Bulgaria and Sweden. Adapted from an article by Poleganov, D.
DE: German-Democratic-Republic; forest-products-industries; Bulgaria-; automation-; Sawmilling-; wood-handling; Panels-; industry-; Furniture-
GE: German-Federal-Republic; Bulgaria-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-01261
UD: 9211
AN: F923003
DC: 1F0435; 1F0129; 1F0445; 1F070

261 of 788
TI: Utilization of broad-leaved trees in Hokkaido. Survey of trends in the lumber industry and in furniture factories using hardwoods.
AU: Kamada,-S
AD: Hokkaido For. Prod. Res. Inst., Midorimachi 12, Asahikawa, Hokkaido 070, Japan.
SO: Journal-of-the-Hokkaido-Forest-Products-Research-Institute. 1982., No. 370, 10-16; BLL.
PY: 1982
LA: Japanese
DE: Furniture-; industry-; raw-materials; Japan-; forest-products-industries; wood-supply-and-demand
GE: Japan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-01462
UD: 9211
AN: F926436
DC: 1F0215; 1F066

262 of 788
TI: Research into the new species of tropical woods in the COMECON countries.
OT: Spolocny vyskum novych druhov tropickych driev v krajinach RVHP.
AU: Potz,-J; Hurda,-J
SO: Drevo. 1982., 37: 1, 12-15; BLL.
PY: 1982
LA: Slovakian
LS: Russian, German, English
AB: A review of the progress of research into the physical, mechanical and technological properties of tropical woods with the objective of enlarging the raw material base for the woodworking and furniture industries of CMEA.
DE: Tropical-timbers; CMEA-; research-; furniture-; woodworking-; raw-materials
GE: Czechoslovakia-; CMEA-; Tropics-
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1984 007-01466
UD: 9211
AN: F926860
DC: 1F025; 1F0214; 1F043; 1F030; 1F066

263 of 788
TI: Veneer processing for door and panel production and for furniture manufacture.
OT: Furnierverarbeitung in der Turen-, Paneel- und Mobelindustrie.
AU: Soine,-H
SO: Holz-als-Roh--und-Werkstoff. 1982., 40: 5, 171-178; 3 pl. BLL.
PY: 1982
LA: German
LS: English
AB: A description is given of veneer preparation by smoothing ('ironing') with hot presses. Three veneer jointing systems are described and an economic evaluation of each is given.
DE: Veneers-; manufacture-; industry-; economics-; machinery-; finishes-; splicing-; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-01656
UD: 9211
AN: F929125
DC: 1F071; 1F066

264 of 788
TI: The feasibility of producing Leucaena press-lam and its use as a stock for making furniture.
AU: Jai,-SY; Hwang,-CY; Hsiung,-JC; Lee,-MC
AD: Taiwan For. Res. Inst., Taipei, Taiwan.
SO: Bulletin,-Taiwan-Forestry-Research-Institute. 1982., No.372, 11 pp.; 18 ref., 1 pl.
PY: 1982
LA: Chinese
LS: English
AB: Parallel-laminated lumber (Press-Lam) was manufactured from 5-yr-old Leucaena leucocephala (Salvador type) from Taiwan. The Press-Lam had an av. wt of 660 kg/m3 and a relative density of 0.584, with mechanical properties similar to those of hardwoods used for high quality furniture manufacture. It was considered suitable for use in furniture manufacture.
DE: Taiwan-; furniture-; Leucaena-leucocephala; raw-materials; Laminated-wood; wood-properties; manufacture-
GE: Taiwan-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1984 007-01662
UD: 9211
AN: F930042
DC: 1F072; 1F032; 1F0661
SM: BN/China/Taiwan

265 of 788
TI: Development of a method of automation of the manufacture of chairs: the PACAF project.
OT: Comment concevoir une automatisation de la fabrication de chaises et de sieges: 'Projet PACAF'.
AU: Doumeingts,-G; Maisonneuve,-MC; Filleau,-M; Capdevielle,-M; Daudignon,-A; Lonne,-C
AD: Lab. GRAI, Univ. Bordeaux I, France.
SO: Groupe de travail no. 2. Les transformations physico-mecaniques. Sous-groupe 2.4 - Procedes de transformation. Colloque sciences et industries du bois. Grenoble du 20 au 22 septembre 1982. 1984., 253-272. Paris, France; Ministere de la Recherche et de la Technologie.
PY: 1984
LA: French
AB: An association was formed by 3 small manufacturers in France in order to increase production and flexibility through automation. A study at the University of Bordeaux I pinpointed the management and technical areas that needed improvement, and production processes that could be automated.
DE: Conferences-; Wood-sciences-and-industries-conference; Furniture-; manufacture-; systems-analysis
GE: France-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02196
UD: 9211
AN: F941206
DC: 1F0661; 1F0129
SM: BN/France/Misc.

266 of 788
TI: Optimisation of the sawing pattern for sawn timber in the manufacture of solid wood furniture.
OT: Optimisation du debit d'avives dans la fabrication de meubles massifs.
AU: Lego,-JP
AD: Centre Technique du Bois, 10, av. de Saint-Mande, 75012 Paris, France.
SO: Groupe de travail no. 2. Les transformations physico-mecaniques. Sous-groupe 2.5 - Preservation. Colloque sciences et industries du bois. Grenoble du 20 au 22 septembre 1982. 1984., 347-349. Paris, France; Ministere de la Recherche et de la Technologie.
PY: 1984
LA: French
DE: Conferences-; Wood-sciences-and-industries-conference; Sawmilling-; efficiency-; outturn-; Furniture-; manufacture-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02118
UD: 9211
AN: F941290
DC: 1F0431; 1F0661
SM: BN/France/Misc.

267 of 788
TI: Methods of test for finishes for wooden furniture. Part 2. Assessment of surface resistance to wet heat.
CA: UK, British Standards Institution.
AD: BSI, 2 Park St., London W1A 2BS, UK.
SO: British-Standard. 1983., No. BS 3962: Part 2, 7 pp.; 4 ref. BLL.
PY: 1983
LA: English
DE: Standards-; furniture-; surface-quality-of-wood-products
GE: UK-
PT: Numbered-Part
IS: 0-580-13540-3
CAB: 1F Forest-Products-Abstracts 1984 007-02541
UD: 9211
AN: F945627
DC: 1F0115; 1F0661

268 of 788
TI: Methods of test for finishes for wooden furniture. Part 3. Assessment of surface resistance to dry heat.
CA: UK, British Standards Institution.
AD: BSI, 2 Park St., London W1A 2BS, UK.
SO: British-Standard. 1983., No. BS 3962: Part 3, 6 pp.; 4 ref. BLL.
PY: 1983
LA: English
DE: Standards-; furniture-; surface-quality-of-wood-products
GE: UK-
PT: Numbered-Part
IS: 0-580-13541-1
CAB: 1F Forest-Products-Abstracts 1984 007-02542
UD: 9211
AN: F945635
DC: 1F0115; 1F0661

269 of 788
TI: Plasticization and drying of beech laths in a high frequency current field during bentwood furniture manufacture.
OT: Uplastycznienie i suszenie lat bukowych w polu pradu wielkiej czestotliwosci w procesie produkcji mebli gietych.
AU: Serwa,-Z
AD: Inst. Technol. Drzew., SGGW-AR, Warsaw, Poland.
SO: Folia-Forestalia-Polonica,-B-Drzewnictwo. 1979, publ. 1980., No. 13, 163-184; 22 ref.
PY: 1979
LA: Polish
LS: Russian, English
AB: Furniture components were plasticized, bent and dried by standard methods with the addition of a high frequency field produced by a 6250 V 6 MHz generator delivering a current of 0.5-2

A during plasticizing and drying. The best combination was found to be a current of 2 A during plasticizing with heating for 20 s and a current of 0.5 A during drying with a heating time of 8 min. Unit time for the whole process was 120-150 times less than using conventional methods, and costs were estimated to be marginally less.
DE: Bentwood-; Electrical-treatment; Improved-wood; wood-plastic-composites; Fagus-sylvatica; drying-; Furniture-; manufacture-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02464
UD: 9211
AN: F948863
DC: 1F066; 1F077
SM: BN/Poland

270 of 788
TI: Quality of Scots pine sawtimber as a basis for optimization of dimension stock production.
OT: Jakosc sosnowego surowca tartacznego jako kryterium optymalizacji produkcji elementow przeznaczeniowych.
AU: Hruzik,-G
AD: Inst. Mech. Technol. Drew., Akad. Rol., Poznan, Poland.
SO: Folia-Forestalia-Polonica,-B-Drzewnictwo. 1979, publ. 1980., No. 13, 113-132; 52 ref.
PY: 1979
LA: Polish
LS: Russian, English
AB: A simulation model was used to evaluate the yield of various standard furniture/joinery blanks obtainable from sawtimber of different quality using different methods of breakdown. Sawtimber of quality classes I-III (av. log length 16-22.5 m) are suitable depending on the variability in log quality (measured by log diam.): group 'b' logs (av. top diam. 28 cm) were more versatile than groups 'a' and 'c' (av. top diam. 32 and 22 cm respectively). Depending on the blank sizes required, lumber of IV-V quality can also be used. Log breakdown by the 'width method' in which the whole log is split into the required dimensions gave a yield 1-12% greater than breakdown by the 'length method' in which the log was first cross cut into the required lengths.
DE: Pinus-sylvestris; sawmilling-; Pinus-; log-size; log-breakdown-methods; Furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02368
UD: 9211
AN: F948898
DC: 1F0431; 1F066
SM: BN/Poland

271 of 788
TI: The manufacturing and application of Japanese cedar (Cryptomeria japonica) glu-lam.

AU: Jai,-SY; Ma,-TP; Hwang,-CY; Lee,-MC
AD: Taiwan For. Res. Inst., Taipei, Taiwan.
SO: Bulletin,-Taiwan-Forestry-Research-Institute. 1983., No. 400, 9 pp.; 10 ref., 2 pl. (col.).
PY: 1983
LA: Chinese
LS: English
AB: A feasibility study was made of the utilization of C. japonica glulam as stock for some types of furniture - cabinets, tables, wall panels etc. The volumetric yield from bolts of 2nd or lower grade logs, with av. diam. 22 cm, was 33%. The mechanical properties of knotty glulam were similar to those of solid C. japonica wood. The dispersal of the knots in the glulam resulted in a more uniform material than soild wood and a more acceptable appearance.
DE: Laminated-wood; wood-properties; uses-; Cryptomeria-japonica; Furniture-; raw-materials
GE: Taiwan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02470
UD: 9211
AN: F951422
DC: 1F072; 1F066
SM: BN/China/Taiwan

272 of 788
TI: A study on lyctid powder-post beetle (Minthea rugicollis (Walker)).
AU: Shi,-ZH; Tan,-SQ
AD: Inst. Trop. For., Chinese Acad. For., Beijing, China.
SO: Scientia-Silvae-Sinicae. 1981., 17: 4, 406-412; 7 ref.
PY: 1981
LA: Chinese
LS: English
AB: The life cycle is described of this serious pest of furniture and building timber, found south of the Yangtse R. and in Taiwan. The insect attacks about 80 species and is effectively controlled by treatment with boric acid (0.08-0.16%) and borax (0.16-0.32%). Furniture and building timbers can be treated with BBP (borax 35%, boric acid 30% and sodium pentachlorophenate 35%) at 6-8 kg/m3, which protects for 10 yr. Other preservatives which can be used are sodium fluoride, DDT and permethrin.
DE: Minthea-rugicollis; Furniture-; China-; Taiwan-; Wood-preservatives; SODIUM-PENTACHLOROPHENOXIDE; boric-acid; fluorine-compounds; permethrin-; DDT-; borax-; Wood-preservation; building-timbers; preservation-
GE: China-; Taiwan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02456
UD: 9211
AN: F952445
DC: 1F055; 1F0532; 1F0631; 1F066

273 of 788
TI: Creep behaviour in shelves in use.
AU: Moto,-YS; Maruyama,-N; Arima,-T; Okazaki,-H
AD: Lab. Wood Technol., Dep. For. Prod. Sci., Shizuoka Univ., Japan.
SO: Bulletin,-Faculty-of-Agriculture,-Shizuoka-University. 1983., No. 33, 71-79; 2 ref. APB.
PY: 1983
LA: Japanese
LS: English
AB: Creep was measured in particleboard, plywood, 'flash' and solid lauan [Shorea spp.] shelf boards used in kitchen cabinets. Creep was greater in boards supported at 4 points than in boards supported at 5 points. Increasing humidity increased creep deflection but recovery occurred with a decrease in humidity. Creep in the primary stages seemed to depend mainly on applied load, while secondary creep depended mainly on humidity. Regression equations are given relating deflection to humidity; the greatest deflection was with particleboard and the smallest was with flash. Boards coated with finishes were less susceptible to humidity.
DE: Strength-of-wood; creep-; Particleboards-; strength-; wood-moisture; Plywood-; Furniture-; testing-
GE: Japan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02631
UD: 9211
AN: F955681
DC: 1F0323; 1F0661; 1F073; 1F072

274 of 788
TI: Machines and tools of wood-processing mills. (8).
AU: Modin,-NA (Editor)
S O :
Mezhvuzovskii-Sbornik-Nauchnykh-Trudov-Leningradskaya-Lesoteknicheskaya-Akademiya-im.-Kirova,-Mashiny-i-Instrumenty-Derevoobrabatyvayushchykh-Proizvodstv. 1981., No. 8, 112 pp.; many ref.
PY: 1981
LA: Russian
AB: This annual compilation of research papers contains 31 individually authored articles on the processes and equipment used in the construction, furniture and pulp and paper industries.
DE: Furniture-; industry-; equipment-; machinery-; Sawmilling-; Pulp-and-paper-industry
GE: USSR-
PT: Numbered-Whole
CI: ABIPC 54, 5924. IPC.
CAB: 1F Forest-Products-Abstracts 1984 007-02717
UD: 9211
AN: F959504
DC: 1F0435; 1F066; 1F081

275 of 788
TI: Technology and equipment of wood-processing plants. (11).
AU: Kulikov,-VA (Editor)
S O :
Mezhvuzovskii-Sbornik-Nauchnykh-Trudov,-Leningradskaya-Lesoteknic heskaya-Akademiya-im.-Kirova,-Teknologiya-i-Oborudovanie-Derevoob rabatyvayushchykh-Proizvodstv. 1982., No. 11, 148 pp.; many ref.
PY: 1982
LA: Russian
AB: An annual compilation of research reports, containing 37 articles on sawmilling, plywood, particleboards, glued wood structures and furniture.
DE: Sawmilling-; research-; Plywood-; Particleboards-; Laminated-wood; Furniture-; USSR-; panels-
GE: USSR-
PT: Numbered-Whole
CI: ABIPC 54, 7325. IPC.
CAB: 1F Forest-Products-Abstracts 1984 007-02702
UD: 9211
AN: F960596
DC: 1F043; 1F072; 1F074; 1F066

276 of 788
TI: An investigation on the termites from Ding Hu Shan.
AU: Zhu,-JL
AD: Guangdong Inst. Ent., China.
S O :
Tropical-and-Subtropical-Forest-Ecosystem,-Ding-Hu-Shan-Forest-Ec osystem-Reserve,-China. 1982., No. 1, 232-236; 9 ref.
PY: 1982
LA: Chinese
LS: English
AB: Fifteen species of termite were found in a recent survey of this subtropical forest nature reserve in Guangdong Province, China, including 2 new species Odontotermes zunyiensis [not yet described] and Reticulitermes dinghuensis Ping, Zhu et Li (1980). Tree species (or other habitat) associated with each termite are listed. The dominant termite was O. formosanus. Old trees of Castanopsis fissa were attacked by Havilanditermes orthonasus and R. affinis. Cryptotermes declivis damaged beams and furniture of Cunninghamia lanceolata in an old temple.
DE: Castanopsis-fissa; Havilanditermes-orthonasus; Odontotermes-formosanus; Reticulitermes-affinis; Isoptera-; damage-by; ecology-; China-; Cryptotermes-declivis; Cunninghamia-lanceolata; distribution-; habitats-; subtropical-forests; Guangdong-; Forests-; structural-wood; Furniture-
GE: China-; Guangdong-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02769; 0F Forestry-Abstracts 1984 045-06139
UD: 9211
AN: F961452

DC: 0F1022; 1F0533; 0F101
SM: BN/China/Misc.

277 of 788
TI: Wood structure, properties and uses of Dalbergia fusca.
AU: Zou,-SQ; Liu,-JH
AD: Yunnan Inst. Trop. Bot., Acad. Sinica, China.
SO: Scientia-Silvae-Sinicae. 1984., 20: 1, 108-110; 8 ref., 1 pl.
PY: 1984
LA: Chinese
LS: English
AB: Heartwood from this tree (endemic in the Xishuangbana area of Yunnan Province) is dark brown to black and very heavy (density 1.13 g/cm3), hard, and low in vol. shrinkage. Some of its qualities and uses are similar to those of imported rosewood. It is a valuable timber for making musical instruments, high-class furniture and carvings. Some experimental results from factories are reported.
DE: Dalbergia-fusca; Musical-instruments; Wood-carving; Wood-properties; hardness-; shrinkage-; Heartwood-; Density-of-wood; Colour-; wood-; Furniture-; raw-materials
GE: China-; Yunnan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02616
UD: 9211
AN: F962688
DC: 1F032; 1F065; 1F0661

278 of 788
TI: Studies on the dimensional stability and durability of the coated surface of some woods for furniture.
AU: Wang,-SY
S O :
Technical-Bulletin,-Experimental-Forest,-National-Taiwan-Universi ty. 1981., No. 128, 40 pp.; 31 ref. Tables and figures have En captions.
PY: 1981
LA: Chinese
LS: English
AB: Five timber species were impregnated with PEG solutions of varying concn., viz. Anisoptera, Tectona grandis, Acacia confusa, Intsia and Sindora. One group of specimens was tested under desorption conditions (from 95 to 10% RH) and absorption conditions (from 10 to 95% RH) for dimensional stability. Another group, treated with polyurethane resin or nitrocellulose lacquer, were assessed for durability using an accelerated weathering test. The PEG content of wood was found to increase linearly with increasing PEG concn. Percentage absorption and desorption increased with increasing PEG concn., but percentage shrinkage and swelling decreased. The antiskrinkage and antiswelling effects of PEG were greatest in Intsia, followed by Sindora, Tectona then Anisoptera and least in Acacia. The gloss of surfaces painted with

polyurethane resin and nitrocellulose lacquer decreased linearly with increasing duration of weathering. Specimens painted with polyurethane resin had better durability than those painted with nitrocellulose lacquer. Coated, radially planed specimens had greater durability than tangentially planed specimens, both treated with PEG and untreated. PEG treatment improved the durability of the surface coating in Intsia, Sindora and Anisoptera, but not in Acacia and Tectona.
DE: Acacia-confusa; Anisoptera-; Intsia-; Sindora-; Tectona-grandis; Furniture-; raw-materials; Taiwan-; preservative-treated-wood; finishes-; Wood-properties; shrinkage-; swelling-; Wood-preservatives; PEG-
GE: Taiwan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02792
UD: 9211
AN: F963048
DC: 1F055; 1F066; 1F0321
SM: BN/China/Taiwan

279 of 788
TI: Current status and future development of the secondary wood-processing industry of developing countries.
AU: Brion,-HP
SO: 1983, 66 pp.; 32 ref. Document No. ID/WG.395/4. Limited distribution. X. Vienna, Austria; United Nations Industrial Development Organization.
PY: 1983
LA: English
AB: A paper prepared for the First consultation on the wood and wood products industry, Helsinki, Finland, 19-23 Sept. 1983. The results of discussions at the Regional preparatory meetings for Asia, Africa and Latin America are brought together and discussed in a global context. The secondary industries include furniture, joinery and construction.
DE: Conferences-; First-consultation-on-the-wood-and-wood-products-industry; Developing-Countries; forest-products-industries; buildings-; joinery-; furniture-
GE: Developing-Countries
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1984 007-02573
UD: 9211
AN: F963269
DC: 1F0213; 1F063; 1F066
SM: X = TRADA

280 of 788
TI: Special number: electronics in forestry and the forest products industry.
OT: Schwerpunktnummer 'Elektronik in der Forst- und Holzwirtschaft'.

AU: Joswig,-G (et-al.); Drunert,-A
AD: Dep. Timber Tech., Tech. Coll. Rosenheim, German Federal Republic.
SO: Holz-Zentralblatt. 1984., 110: 81, 1225...1258; many pl. BLL.
PY: 1984
LA: German
AB: A collection of papers and short reports dealing with current aspects of the introduction of computer technology. Four papers are noticed here, and one paper (by Kleeberg, G.) is noticed in FA. Other topics include the use of computer technology in various woodworking processes, in the furniture industry, and in the timber trade. Joswig, G. [Economics of the use of numerically controlled machinery in timber processing.] Gesichtspunkte der Wirtschaftlichkeit beim Einsatz numerisch gesteuerter Maschinen in der Holzverarbeitung. 1225-1228. - In relation to use of a router and a double-end tenoner. Drunert, A. [Determination of value reduction for sawn timber, planed goods, and boards in the context of annual inventories.] Ermittlung von Bewertungsabschlagen fur Schnittholz, Hobelware und Platten im Rahmen der Lagerbewertung beim Jahresabschluss. 1235-1236. [Optimization of log sorting in a south German constructional timber sawmill.] Langholz-Einteiloptimierung in einem suddeutschen Bauholzsagewerk. 1241-1242 [3 pl.] [A computer program package for the packing container industry.] Ein EDV-Programmpaket fur die Verpackungsindustrie. 1243-1244.
DE: Computer-techniques; sawmilling-; woodworking-; furniture-; timber-trade; timberyards-; packing-containers; Forest-products-industries; automation-; German-Federal-Republic
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02920
UD: 9211
AN: F963935
DC: 1F0129; 1F043; 1F064; 1F066; 1F10

281 of 788
TI: Utilization of coconut lumber for furniture manufacture (classroom chairs).
AU: Mosteiro,-AP
AD: FPRDI, NSTA, College, Laguna 3720, Philippines.
SO: FPRDI-Journal. 1983., 12: 1/2, 22-31; 23 ref., 1 pl.
PY: 1983
LA: English
AB: Sixty clean coconut trunks, aged 60-70 yr, were sawn, dried and used to manufacture the chairs which were service tested in elementary schools in the Philippines. About 10 bd ft of rough lumber were required for each chair. If the lumber is adequately dried and machined, it is an economical material for classroom chair manufacture.
DE: Cocos-nucifera; Philippines-; furniture-; manufacture-; raw-materials; economics-
GE: Philippines-
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1984 007-03068
UD: 9211
AN: F965873
DC: 1F066

282 of 788
TI: Profile of the Philippine forest-based industries: the cottage-type and small-scale industries.
AU: Moredo,-FC; Centeno,-MT; Cuaresma,-TG; Amio,-EC
AD: FPRDI, NSTA, College, Laguna 3720, Philippines.
SO: FPRDI-Journal. 1983., 12: 1/2, 32-44, 68; 24 ref., 1 tab.
PY: 1983
LA: English
AB: The report covers an evaluation of 2176 enterprises in the following seven sectors: furniture (wood and rattan), joinery, furniture and joinery, woodcraft (wood carving, toys etc.), shoecraft, musical instruments, furniture/woodcraft/wooden shoes. The industries are categorized into: cottage-type, small and medium, according to their assets. Technological and economic, marketing and allied deficiencies associated with the industries are tabulated and discussed.
DE: Musical-instruments; Clogs-; Joinery-; Furniture-; industry-; Philippines-; Forest-products-industries; sociology-
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-02934
UD: 9211
AN: F965890
DC: 1F0219

283 of 788
TI: Holding strength of metal inserts in wood.
AU: Eckelman,-CA; Cassens,-DL
AD: Dep. For. & Nat. Resour. Purdue Univ., West Lafayette, IN 47907, USA.
SO: Forest-Products-Journal. 1984., 34: 6, 21-25; 1 ref., 2 pl.
PY: 1984
LA: English
AB: The increasing popularity of knock down furniture and manufacturers' continued interest in finding efficient joints has led to expanded use of threaded metal inserts. Withdrawal strengths for a range of both threaded and knock-in type fasteners from the face grain of wood of 5 species are presented. A regression equation, fitted to the face grain data, adequately predicted withdrawal strength based on insert diam. and length and shear strength of the wood for most threaded insert types. Tapered inserts with a coarse, interrupted quick pitch thread gave lower values, while deep fine threaded inserts gave higher values than predicted by the regression equation.
DE: Joints-timber; testing-; screwed-joints; mathematics-; Furniture-; manufacture-
GE: USA-

PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-03024
UD: 9211
AN: F968490
DC: 1F0433; 1F0323; 1F0129; 1F0661

284 of 788
TI: Support for research on improving the work conditions in the woodworking and wood processing industries.
OT: Forschungsforderung zur Humanisierung des Arbeitslebens in den Betrieben der Holzbe- und -verarbeitung.
AU: Ziegler,-A
AD: BMA/BMFT, Bonn, German Federal Republic.
SO: Holz-Zentralblatt. 1984., 110: 102, 1477-1478; BLL.
PY: 1984
LA: German
AB: A report on programmes undertaken since 1974 by the W. German Federal Ministry for Research and Technology. Basic research projects, and projects relating to materials and equipment, the furniture industry, and joinery are discussed.
DE: German-Federal-Republic; forest-products-industries; safety-; Health-; labour-; research-; Furniture-; industry-; Woodworking-
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-03152
UD: 9211
AN: F969194
DC: 1F027; 1F0214; 1F025

285 of 788
TI: Sound quality upholstered frame part yields from lumber and green cuttings dried by a radio-frequency/vacuum system and by conventional kiln-drying.
AU: Harris,-RA; Taras,-MA; Schroeder,-JG
AD: For. Dep., Lehotsky Hall, Clemson Univ., Clemson, SC 29631, USA.
SO: Forest-Products-Journal. 1984., 34: 7/8, 19-21; 2 ref.
PY: 1984
LA: English
AB: A comparison was made of the yields of oak furniture dimension parts from lumber dried by radio-frequency/vacuum (RFV) or conventional kiln drying, either before or after cutting to dimension. Higher yields were obtained with RFV than with conventional drying. For both drying methods, higher yields were obtained when the material was dried and then cut than when it was cut green. Of the material that was cut green, 49% of the conventionally dried lumber was rejected, compared with only 40% for the RFV method. An advantage in cutting green lumber to dimension was the reduction in the amount of lumber to be dried and the elimination of end-coating and stickering.
DE: Drying-; vacuum-drying; equipment-; Quercus-; quality-controls; Furniture-; materials-; wood-

PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-03252
UD: 9211
AN: F969399
DC: 1F045; 1F066

286 of 788
TI: Rubber [wood] as an alternative species in the mass production of knock-down furniture - an industrial experience.
AU: Cheow,-LT
AD: UMW Industries Sdn. Bhd., Furniture Div., PO Box 32, Temerloh, Pahang, Malaya.
SO: Malaysian-Forester. 1982., 45: 3, 316-320; 1 ref.
PY: 1982
LA: English
AB: Experience in Peninsular Malaysia since 1974 is reviewed with special reference to irregularity of raw material supply, defects and susceptibility to borer attack. Rubber wood is basically used in furniture parts as a substitute for sepetir [Sindora spp.]. Blue-stain, a common defect, was found to markedly reduce static bending strength in severe cases. Recovery rates at each stage of furniture manufacture were lower than with sepetir.
DE: Hevea-brasiliensis; Sindora-; Stain-fungi; Furniture-; raw-materials; manufacture-; Timber-trade; wood-supply-and-demand; PENINSULAR-MALAYSIA; WOOD-DEFECTS; strength-; Conferences-; Rubberwood-utilisation; WOOD-STRENGTH; bending-strength; Hevea-
GE: Peninsular-Malaysia
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-03293
UD: 9211
AN: F971431
DC: 1F0661; 1F046; 1F050; 1F10

287 of 788
TI: Rubberwood - present and potential utilization.
AU: Lew,-WH; Sim,-HC
AD: Malaysian Timber Industry Board, Kuala Lumpar, Malaya.
SO: Malaysian-Forester. 1982., 45: 3, 321-326; 8 ref.
PY: 1982
LA: English
AB: A review of both wood and wood-based products, with special reference to Malaysia. The main end-use is furniture for which rubber wood has become popular largely owing to its attractive cream colour. The potential supply of merchantable rubber wood in Peninsular Malaysia is estimated by States: the total of 1.5 million m3/yr may soon amount to 20% of the annual yield of timber. Actual domestic production is uncertain but was sufficient to supply 12 furniture factories and leave 26 500 m3 of sawn timber available for export in 1981.
DE: Hevea-brasiliensis; Forest-products-industries; wood-supply-and-demand; PENINSULAR-MALAYSIA; Furniture-; raw-materials; Wood-; Hevea-; utilization-; Conferences-;

Rubberwood-utilisation
GE: Peninsular-Malaysia
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-03148
UD: 9211
AN: F971440
DC: 1F0215; 1F030; 1F0661; 1F10

288 of 788
TI: Veneering of decorative wood strips in joinery shops.
OT: Handwerkliche Ummantelung von Profilstaben.
AU: Heuter,-E
SO: Holz-Zentralblatt. 1984., 110: 108, 1555.
PY: 1984
LA: German
AB: Solid wood strips to give rounded edges to flat surfaces, as are commonly used in furniture manufacture, shopfitting, etc., are often covered with veneer. Equipment and methods are described.
DE: Joints-timber; glued-joints; Veneering-; Gluing-; Woodworking-; Furniture-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-03292
UD: 9211
AN: F973515
DC: 1F066; 1F071

289 of 788
TI: Considerations relating to thermoplastic bonding. 3. Bond strength.
OT: Betrachtungen zum thermoplastischen Anformen. Teil 3. Verbundfestigkeit.
AU: Kopia,-F; Seltmann,-J
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1983., 24: 2, 82-88; 9 ref., 3 pl. BLL.
PY: 1983
LA: German
LS: Russian, English
AB: The bond strength obtained as a result of the thermoplastic joining of plastics to wood-based materials is analysed in relation to selected properties of the materials used. Bond strength was greater in bonds of plastic with particleboard than with solid wood, and greater in relation to shearing than to tensile loading. Shaping of the wood cross-section to increase the surface area of the bond gave no significant increase in bond strength. Bond strength increased as the relative proportion of middle to surface layer of particleboard increased; and it also increased with decreasing fused viscosity of the plastic used. Special reference is made to applications in furniture manufacture.
DE: Particleboards-; joints-timber; overlays-; testing-; Plastics-; Plasticizing-of-wood; Furniture-; raw-materials; Surface-interactions-of-wood
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1984 007-03239
UD: 9211
AN: F973671
DC: 1F0433; 1F0661; 1F073

290 of 788
TI: Use of acoustic emission analysis in wood research.
OT: Stand und Moglichkeiten der Anwendung der Schallemissionsanalyse in der Holzforschung.
AU: Niemz,-P; Wagner,-M; Theis,-K
AD: VEB WTZ holzverarb. Ind., Dresden, German Democratic Republic.
SO: Holztechnologie. 1983., 24: 2, 91-95; 14 ref. BLL.
PY: 1983
LA: German
LS: Russian, English
AB: A literature review and discussion of research results. The method is evaluated for testing: particleboard fractures in relation to board structure; effect of microscopic ruptures on the creep deformation of particleboard; effect of adhesive type on the properties of glued solid wood elements; and deformation and failure of angle joints in furniture.
DE: Strength-of-wood; creep-; fractures-; Joints-timber; glued-joints; testing-; Furniture-; Wood-properties; acoustic-properties; Particleboards-; strength-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1984 007-03143
UD: 9211
AN: F973698
DC: 1F0125; 1F0323; 1F0433; 1F073

291 of 788
TI: Shrinkage, hygroscopicity and steam bending property of rubberwood (Hevea brasiliensis).
AU: Sharma,-SN; Gandhi,-BL; Kukreti,-DP; Gaur,-BK
AD: For. Res. Inst. & Coll., Dehra Dun, UP, India.
SO: Journal-of-the-Timber-Development-Association-of-India. 1982., 28: 1, 19-24; 7 ref. BLL.
PY: 1982
LA: English
AB: Data are given for timber from 25- to 30-yr-old spent rubber trees from Kerala. Rubberwood is a moderately light hardwood, with relative density 0.463 ± 0.029 (green vol.). Shrinkage properties are similar to those for several joinery and furniture species, and bending properties are suitable for bentwood furniture (min. bending radius of 7.5 cm in 1.3-cm thickness for both tangentially and radially sawn specimens).
DE: Hevea-brasiliensis; Wood-properties; shrinkage-; Wood-moisture; equilibrium-moisture-content; Wood-density; Furniture-; raw-materials; Bentwood-
GE: India-; Kerala-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00041

UD: 9211
AN: F976255
DC: 1F032; 1F0661

292 of 788
TI: Measuring the surface roughness of furniture products.
OT: Huonekaluteollisuuden tuotteiden pinnan karheus ja sen mittaaminenen.
AU: Froblom,-J
AD: Technical Res. Cent. Finland (VTT), Vuorimiehentie 5, SF-02150 Espoo 15, Finland.
SO: Tutkimuksia,-Valtion-Teknillinen-Tutkimuskeskus,-Finland. 1984., No. 288, xi + 113 pp.; 28 ref.
PY: 1984
LA: Finnish
DE: Furniture-; manufacture-; Surface-quality-of-wood-products; Finland-
GE: Finland-
PT: Numbered-Part
IS: 951-38-2069-6
CAB: 1F Forest-Products-Abstracts 1985 008-00184
UD: 9211
AN: F977570
DC: 1F0661; 1F0321; 1F0125
SM: BN/Finland

293 of 788
TI: Dimension yields from yellow-poplar lumber.
AU: Gilmore,-RC; Hanover,-SJ; Danielson,-JD
AD: For. Dep., NC State Univ., Raleigh, NC, USA.
S O :
General-Technical-Report,-Forest-Products-Laboratory,-USDA-Forest-Service. 1984., No. FPL-41, 13 pp.; 20 ref., 1 pl.
PY: 1984
LA: English
AB: As an aid to better utilization of yellow poplar, charts are presented for determining cutting stock yields for each of the 5 top grades. Adjustment charts present the changes for specified width cuttings, also by grade. Yield and cost comparisons are made for various grades and grade mixes, and a case study is used for illustration. The data should help manufacturers by making possible comparison of study yields with actual mill yields, comparison of various grade yields with one another, and the evaluation of grade mixes for the most efficient cutting bill production.
DE: Liriodendron-tulipifera; Sawmilling-; Liriodendron-; outturn-; quality-; Furniture-; raw-materials
GE: USA-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1985 008-00104
UD: 9211
AN: F979238
DC: 1F0431; 1F066

SM: BN/USA

294 of 788
TI: The industrial management of quality. Contribution to general study R416. Preliminary approach for the furniture industry.
OT: Gestion industrielle de la qualite. Contribution a l'etude generale R416. Approche preliminaire pour l'indsutrie de l'ameublement.
AU: Garnier,-P
AD: CTB, 10, ave. de Saint-Mande, Paris 75012, France.
SO: Courrier-de-l'Industriel-du-Bois-et-de-l'Ameublement. 1983., No. 45, 23 pp.; 19 ref.
PY: 1983
LA: French
DE: Furniture-; industry-; France-; forest-products-industries; management-
GE: France-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00183
UD: 9211
AN: F979424
DC: 1F066; 1F0214

295 of 788
TI: Considerations relating to thermoplastic bonding. 1. Invisible angle joints.
OT: Betrachtungen zum thermoplastischen Anformen. Teil 1. Unsichtbare Eckverbunde.
AU: Kopia,-F; Seltmann,-J
SO: Holztechnologie. 1982., 23: 4, 213-218; 7 ref. BLL.
PY: 1982
LA: German
LS: Russian, English
AB: The angle-jointing of particleboard or solid timber by injection moulding of thermoplastic was studied, with special reference to applications in furniture manufacture. The effects of joint structure on joint strength were evaluated. In particleboard, thermoplastic joints with a square cross-section were the strongest, followed by rectangular and L-shaped sections. In solid beech, these strength relations were reversed. Joint strength increased with increasing particleboard thickness (10-18 mm). Joint strength was greater in solid beech than in Scots pine; in both timbers, polypropylene joints were stronger than polyethylene joints. Effects of moulding conditions (plastic dosage, bond length) were studied in particleboard.
DE: Particleboards-; joints-timber; Fagus-sylvatica; Pinus-sylvestris; testing-; Plastics-; Furniture-; manufacture-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00109
UD: 9211
AN: F979602
DC: 1F0433; 1F0661; 1F073

296 of 788
TI: Furniture boards made from solid beech and oak.
OT: Massive Mobelplatte aus Buche und Eiche.
AU: Bandixen,-E
AD: Dietiker + Co. AG, Stein am Rhein, Switzerland.
SO: Holz-Zentralblatt. 1984., 110: 123, 1813-1814; 2 pl. BLL.
PY: 1984
LA: German
AB: Glulam boards made from small individual elements are described. Each element is 23 mm thick, 20 cm long, and 4.5 cm wide (edge-milled for finger-jointing), with both ends sawn at a 45 ° angle. These elements are joined together along their (long) edges using PVA adhesive to make narrow boards. The boards are then joined along the edges to give finished structures (table tops, cabinet doors, floorboards) of specified dimensions and with a decorative herringbone pattern. The boards are suitable for use in most building interiors (including centrally-heated buildings), but not under high RH conditions (e.g. in newly-constructed buildings).

DE: Laminated-wood; Fagus-; Quercus-; joints-timber; manufacture-; uses-; Fagus-sylvatica; Quercus-robur; Furniture-; glued-joints
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00192
UD: 9211
AN: F980112
DC: 1F072; 1F0661; 1F079

297 of 788
TI: Troubleshooting a furniture performance problem. An example of applied wood technology.
AU: Dost,-WA
AD: For. Prod. Lab., Univ. Calif., Berkeley, CA, USA.
SO: Forestry-and-Forest-Products,-University-of-California. 1984., No. 51, 4 pp.; 4 ref.
PY: 1984
LA: English
AB: Five unfinished table tops of narrow red alder [Alnus rubra] strips, edge-glued and surfaced to 3/4 inch, were examined to determine the cause of warping and the reason for failure of supporting strips glued around the perimeter of the undersides of the table tops and also in the central areas of the larger tables. Design faults were thought to be more important in warping than the use of timber with m.c. higher than recommended for furniture manufacture.
DE: Furniture-; manufacture-; testing-; Alnus-rubra; Defects-in-wood; warping-
GE: USA-; California-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1985 008-00185
UD: 9211
AN: F980244
DC: 1F0661; 1F0321; 1F046

SM: BN/USA/California

298 of 788
TI: Dehumidification drying [of Pentacme contorta] for the furniture industry.
AU: Laxamana,-MG; Bardenas,-ET
AD: FORPRIDECOM, NSDB, College, Laguna 3720, Philippines.
SO: Forpride-Digest. 1980., 9: 1, 35-45; 10 ref., 1 pl. BLL.
PY: 1980
LA: English
DE: Pentacme-contorta; drying-; dehumidification-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-00110
UD: 9110
AN: F803099
DC: 1F045; 1F0661
SM: P

299 of 788
TI: Production technologies of the Philippine furniture industry.
AU: Cuaresma,-TG; Moscoso,-NM; Amio,-EC; Amurao,-RP; Pasicolan,-PN
AD: Forpridecom, NSDB, College, Laguna 3720, Philippines.
SO: Forpride-Digest. 1979., 8: 3/4, 56-68; 10 ref., 2 pl. BLL.
PY: 1979
LA: English
DE: furniture-and-furniture-making; Philippines-; forest-products-industries
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-00161
UD: 9110
AN: F805904
DC: 1F066; 1F0219
SM: P

300 of 788
TI: The Italian board industry - for furniture and building interiors.
OT: L'industria dei panelli in Italia - per il mobile e l'arredamento.
AU: Stroppa,-P
SO: 1980, 176 pp. Milan, Italy; L'industria del mobile.
PY: 1980
LA: Italian
AB: A book based on a survey which included the plywood, particleboard and fibreboard industries; first-hand information is provided on the market and on technical aspects.
DE: Italy-; buildings-; furniture-and-furniture-making; plywood-; particleboards-; fibreboards-; panels-; marketing-; industries-
GE: Italy-

PT: Unnumbered-Whole
AV: $35
CI: review in Holz-Zentralblatt (1982) 108 (84) 1216.
CAB: 1F Forest-Products-Abstracts 1983 006-00163
UD: 9110
AN: F806960
DC: 1F070; 1F0632; 1F0661; 1F10

301 of 788
TI: Use of particleboard in furniture manufacture.
OT: Empfehlungen zur Verwendung von Spanplatten in Mobelbau.
AU: Marutzky,-R; Mehlhorn,-L; Menzel,-W
AD: WKI, TU Braunschweig, German Federal Republic.
SO: WKI-Mitteilungen,-Wilhelm-Klauditz-Institut,-German-Federal-Republic. 1982., No. 332, 5 pp.; 14 ref., 1 pl. Reprinted from Holz- und Kunststoffverarbeitung (1982) 17, 224-229.
PY: 1982
LA: German
LS: English, French
AB: Factors affecting formaldehyde emissions from finished furniture made from UF particleboard are discussed, including effects of: surface coatings or coverings (including veneers); and unsealed edge surfaces and constructional holes or grooves.
DE: particleboards-; uses-; furniture-and-furniture-making; formaldehyde-emission
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1983 006-00202
UD: 9110
AN: F810993
DC: 1F073; 1F0661; 1F028
SM: Reprint/2074

302 of 788
TI: Noise control technology demonstration for the furniture industry.
AU: Hart,-FD; Stewart,-JS
AD: Sch. Engrg., NC State Univ., Raleigh, NC 27650, USA.
SO: Noise-Con 81 Proceedings, 1981 national conference on noise control engineering. Applied noise control technology. 1981., 317-322; 4 ref. TRADA. Raleigh, North Carolina, USA; North Carolina State University.
PY: 1981
LA: English
AB: A discussion of a programme established to demonstrate and document the economic and technical feasibility of engineering noise controls. Results, using various noise abatement devices, with cut-off saws, ripsaws, finish planers, moulders, and tenoners show good noise reductions at relatively low costs.
DE: noise-; furniture-and-furniture-making; conferences-; Noise-Con-81
PT: Unnumbered-Part

CAB: 1F Forest-Products-Abstracts 1983 006-00590
UD: 9110
AN: F821731
DC: 1F066; 1F027

303 of 788
TI: Computer simulation of a noise environment in a furniture factory.
AU: Dow,-C
AD: Cent. Acoustical Studies, NC State Univ., Raleigh, NC 27650, USA.
SO: Noise-Con 81 Proceedings, 1981 national conference on noise control engineering. Applied noise control technology. 1981., 335-338; 3 ref. TRADA. Raleigh, North Carolina, USA; North Carolina State University.
PY: 1981
LA: English
DE: simulation-; noise-; furniture-and-furniture-making; conferences-; Noise-Con-81
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-00497
UD: 9110
AN: F821782
DC: 1F0129; 1F066; 1F027

304 of 788
TI: Furniture and joinery industries in India.
AU: Guha,-SRD; Rajput,-SS
AD: For. Res. Inst., Dehra Dun, UP, India.
SO: Journal-of-the-Timber-Development-Association-of-India. 1981., 27: 4, 5-12; 13 ref. BLL.
PY: 1981
LA: English
DE: India-; furniture-; industries-; joinery-
GE: India-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-00844
UD: 9110
AN: F821871
DC: 1F066; 1F0215; 1F0631
SM: P

305 of 788
TI: Recent developments in particle board production.
AU: Carre,-JL
AD: Station Technol. For., Centre Recherches Agron., Gembloux, Belgium.
SO: 1981, No. ID/WG. 335/15, 87 pp.; 23 ref., 26 pl. Limited distribution. TRADA. Vienna, Austria; United Nations Industrial Development Organization.
PY: 1981

LA: English
AB: A paper prepared for a seminar on Wood based panels and furniture industries, Beijing, China, 23 March to 7 March 1981. Developments in the following areas are considered: board manufacture; raw materials; waferboard manufacture and uses; wood cement board manufacture and uses; and economics.
DE: conferences-; Wood-based-panels-and-furniture-industries; panels-; industries-; particleboards-; wood-cement
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1983 006-00850
UD: 9110
AN: F825737
DC: 1F073; 1F070; 1F076

306 of 788
TI: Guidelines for the selection of options in establishing wood based panel industries in developing countries.
CA: United Nations Industrial Development Organization.
SO: 1981, No. ID/WG. 335/16, 22 pp.; 5 ref. Limited distribution. TRADA. Vienna, Austria.
PY: 1981
LA: English
AB: A paper prepared for a seminar on Wood based panels and furniture industries, Beijing, China, 23 March to 7 March 1981. The main considerations in setting up wood industries are dealt with separately, viz. raw material, market, technology, and labour and capital requirements.
DE: Developing-Countries; forest-products-industries; panels-; industries-; conferences-; Wood-based-panels-and-furniture-industries
GE: Developing-Countries
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1983 006-00673
UD: 9110
AN: F825745
DC: 1F0211; 1F070

307 of 788
TI: The influence of the movement pattern on the results of mechanical fatigue testing of drawers.
OT: Einfluss der Bewegungscharakteristik auf die Ergebnisse bei mechanischen Dauerprufungen an Mobelschubladen.
AU: Alles,-G
AD: Deutsches Inst. fur Mobeltechnik e.V., Rosenheim, German Federal Republic.
SO: Holz-als-Roh--und-Werkstoff. 1981., 39: 9, 361-366; 3 ref. BLL.
PY: 1981
LA: German
LS: English
AB: To relate testing methods for drawers to criteria of use, 26 pairs of identical drawers were selected. One of each pair was subjected to a long term test in sinusoidal movement, while the

other was moved with a pneumatic cylinder giving almost linear movement. Abrasion of the drawers was compared after 30 000 loading cycles. Results from the two types of movement were similar, showing that the pneumatic cylinder appears suitable for mechanical fatigue testing. Variations in opening and closing forces and drawer sliding were also taken into account.
DE: furniture-; testing-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-01302
UD: 9110
AN: F835910
DC: 1F0661

308 of 788
TI: Standards for furniture.
OT: Normen fur die Mobelbereich.
CA: German Federal Republic, Deutsches Institut fur Normung eV.
SO: 1981, Ed. 2, 272 pp. Berlin, German Federal Republic.
PY: 1981
LA: German
AB: A collection of 54 DIN standards. Information is included on tolerances for timbers and wood-based materials used in furniture manufacture.
DE: standards-; furniture-
GE: German-Federal-Republic
PT: Unnumbered-Whole
AV: DM62
CI: review in Holz-Zentralblatt (1982) 108 (100) 1420. BLL.
CAB: 1F Forest-Products-Abstracts 1983 006-01107
UD: 9110
AN: F838960
DC: 1F0115; 1F0661

309 of 788
TI: Incorporation of the edge-lamination process into line production.
OT: Wie die Schmalflachenbeschichtung in Fluss kam.
AU: Hornberger,-E
SO: Holz-Zentralblatt. 1983., 109: 6, 61-62; 3 pl. BLL.
PY: 1983
LA: German
AB: A review of the development, since 1962, of machinery and materials for application of overlays to edges of particleboard during furniture manufacture. The 'hot and cold method' is discussed in detail, and later developments are outlined, including the 'cold adhesive active method' (using PVA adhesive) and the application of overlays to profiled edges by 'softforming'.
DE: overlays-; furniture-; raw-materials; particleboards-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-01322
UD: 9110
AN: F839452

DC: 1F075; 1F0661; 1F073
SM: P

310 of 788
TI: Meeting the solid wood needs of the furniture and cabinet industries: standard-size hardwood blanks.
AU: Araman,-PA; Gatchell,-CJ; Reynolds,-HW
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S O :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1982., No. NE-494, ii + 27 pp.; 1 ref.
PY: 1982
LA: English
AB: Parts requirements were analysed for 20 furniture and 12 kitchen cabinet makers from data compiled by the International Woodworking Machinery and Furniture Supply Fair-USA. Standard sizes are recommended for kiln-dried blanks (boards) of specified lengths, widths, thicknesses and qualities to provide rough dimension parts with minimum wastage.
DE: furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-01656
UD: 9110
AN: F849768
DC: 1F0661
SM: BN/USA

311 of 788
TI: 4/4 hardwood dimension from short bolts: economic and processing comparison of conventional and innovative production.
AU: Stewart,-HA; Rosen,-HN; Huber,-HA; Rasher,-AA
AD: NCFES, USDA For Serv., Southern Illinois Univ., Carbondale, IL 62901, USA.
SO: Forest-Products-Journal. 1982., 32: 11/12, 71-76; 12 ref.
PY: 1982
LA: English
AB: The costs of producing 4/4 [1-inch] dimension lumber from black walnut [Juglans nigra], black cherry [Prunus serotina], and yellow poplar in dimension mills with 8, 2, and 1 MM BF [million bd ft] input capacity were analysed. Internal rates of return varied from 13 to 94% and were greater for the higher valued species and for the larger mills. Even using bolts costing $100 more than expected was economically attractive in the larger mills. A present-value analysis of each of the three mill sizes for black walnut and yellow poplar bolts for 4 alternative drying methods and 3 alternative surfacing methods showed that solar-dehumidification drying was less costly than conventional kiln, jet, or presssure-steam drying. Likewise, face milling was less costly than conventional knife planing or abrasive planing. From authors' summary.
DE: furniture-; raw-materials; economics-; Juglans-nigra; Prunus-serotina; Liriodendron-tulipifera; sawmilling-; smallwood-

GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-01541
UD: 9110
AN: F851592
DC: 1F043; 1F066; 1F10
SM: P

312 of 788
TI: Furniture manufacture.
OT: Vyroba nabytku.
AU: Drapela,-J (et-al.)
SO: 1980, 485 pp. Prague, Czechoslovakia; Staatsverlag fur technische Literatur.
PY: 1980
LA: Czech
AB: This book, designed for students and practical workers, covers the industrial manufacture of wooden furniture. Separate chapters treat: prerequisites for production, materials, manufacturing tolerances and conditions, manufacture of constructional elements, and the technology of wooden furniture construction (224 pp.)
DE: books-; furniture-; manufacture-
PT: Unnumbered-Whole
CI: review in Holzindustrie 34 (5) 157.
CAB: 1F Forest-Products-Abstracts 1983 006-01373
UD: 9110
AN: F851649
DC: 1F0111; 1F0661

313 of 788
TI: Is nasal adenocarcinoma in the Buckinghamshire furniture industry declining?
AU: Acheson,-ED; Winter,-PD; Hadfield,-E; Macbeth,-RG
AD: MRC Envir. Epidemiology Unit, Univ. Southampton, Southampton Gen. Hospital, SO9 4XY, UK.
SO: Nature,-UK. 1982., 299: 5880, 263-265; 12 ref. TRADA.
PY: 1982
LA: English
AB: The incidence of the disease in Buckinghamshire, UK from 1980 to 1981 is reviewed. It is reported that skilled furniture-makers, including wood machinists, cabinet makers and chair makers, have experienced a cumulative lifetime risk of having nasal adenocarcinoma of at least 1 in 120 during the period studied. An analysis revealed that, although there was an apparent decline in incidence in men entering the industry after the period 1915-1924, it was not statistically significant.
DE: woodworking-; labour-; health-; furniture-; United-Kingdom
GE: UK-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-01409
UD: 9110
AN: F852670

DC: 1F027; 1F043; 1F066

314 of 788
TI: Special number: Timber trade/timber import.
OT: Sondernummer Holzhandel/Holzimport.
AU: Schimpfle,-V; Beyse,-R; Dahms,-KG; Lohmann,-U; Peters,-GA; Becker,-G
SO: Holz-Zentralblatt. 1983., 109: 51, 697...753; 1 ref. BLL.
PY: 1983
LA: German
AB: Eight papers dealing with the W. German timber market; 6 are noticed here: Schimpfle, V. [Criteria in the production and sale of ready-made parts for industrial and hand-made furniture.] Kriterien der Produktion und des Absatzes von Zulieferteilen fur die Mobelhandwerk. 699, 712. -- Types of parts required by the furniture industry and economic considerations are discussed. Beyse, R. [Possibilities and problems in the settlement of claims and disputes in the timber trade.] Moglichkeiten und Probleme bei der Regelung von Reklamationen und Streitfallen im Holzhandel. 706, 708 Dahms, K.G. [Timber imports mean raw material procurement for the forest products industry.] Holzimport ist Rohstoffbeschaffung fur die Holzindustrie. 714-715. -- A discussion of sources and utilization of tropical timbers in the W. German forest products industry. Lohmann, U. [Sales promotion in the timber trade.] Verkaufsforderung im Holzhandel. 732-733 Peters, G.A. [The supply of profiled boards to end-users in the Munich metropolitan area.] Das Profilbretterangebot fur Endverbraucher im Grossraum Munchen. 745-746 [1 ref.] Becker, G. [Development of the structure of the timber market and timber supply from the regional viewpoint.] Entwicklung von Holzmarktstrukturen und Rohholzangebot aus regionaler Sicht. 747-751, 753. -- With reference to developments in the various regions of Baden-Wurtemberg in 1966-81, as compared with the state as a whole.
DE: German-Federal-Republic; timber-trade; trade-; forest-products-industries; wood-supply-and-demand; legislation-; marketing-; furniture-; raw-materials; moulding-
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-02074
UD: 9110
AN: F859321
DC: 1F10; 1F022; 1F0434; 1F0661
SM: P

315 of 788
TI: Manufacture of furniture drawers from a wood/glue composition.
AU: Garasevich,-GI; Sagal',-SZ
AD: UkrNIIMOD, Ukrainian SSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1981., No. 9, 7-8; BLL.
PY: 1981
LA: Russian

AB: The 4 sides and base of the drawers are separately moulded from equal parts of machine particles and sawdust bonded with 12-15% of UF resin. Surface layers of resin-impregnated paper are added at the time of pressing. The edges are profiled and flanged to increase the strength of corner joints. An automatic press-moulding machine is described. Production costs have proved to be much lower than for drawers of plywood or plastic.
DE: furniture-; manufacture-; raw-materials; moulded-products; joints-timber; overlays-; processing-; sawdust-; glued-joints
GE: Ukrainian-SSR
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-02302
UD: 9110
AN: F860915
DC: 1F073; 1F0661; 1F075; 1F0433; 1F092

316 of 788
TI: Testing furniture for suitability for use.
OT: Zur Prufung der Gebrauchstauglichkeit von Mobeln.
AU: Kossatz,-G; Bottcher,-P; Marutzky,-R
AD: WKI, TU Brunswick, German Federal Republic.
S O :
WKI-Mitteilungen,-Wilhelm-Klauditz-Institut,-German-Federal-Republic. 1982., No. 331, 4 pp.; 24 ref., 2 pl. Reprint from Qualitat und Zuverlassigkeit 27, 138-141.
PY: 1982
LA: German
AB: A review, with particular reference to DIN standards, of mechanical tests and testing of surface properties, pollutant emissions, and fire resistance.
DE: furniture-; standards-
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-02292
UD: 9110
AN: F865615
DC: 1F0661; 1F0115
SM: Reprint/2156

317 of 788
TI: Australian blackwood (Acacia melanoxylon).
AU: Nicholas,-ID
AD: For. Res. Inst., Rotorua, New Zealand.
SO: What's-New-in-Forest-Research. 1982., No. 105, 4 pp.; 4 pl. (3 col.).
PY: 1982
LA: English
AB: An updated version of a paper already noticed [see FA 41, 6620], on the silviculture and properties of this species. The timber is well suited for high quality furniture and cabinet work.
DE: Acacia-melanoxylon; New-Zealand; furniture-; raw-materials
GE: New-Zealand

PT: Numbered-Part
CAB: OF Forestry-Abstracts 1983 044-05381
UD: 9110
AN: F868177
DC: ODC03725; 1F030; 1F066
SM: P

318 of 788
TI: Comparison of performances of wooden chair joints.
AU: Ishii,-M; Miyajima,-H
AD: Dep. For. Prod., Fac. Agric., Hokkaido Univ., Japan.
SO: Research-Bulletins,-College-Experiment-Forests,-Hokkaido-University. 1981., 38: 1, 121-138; 4 ref. En tab. & fig.
PY: 1981
LA: Japanese
LS: English
AB: Tests on the stiffness and strength of 6 types of joint (mortice-tenon, open mortice-tenon, mortice-tenon with shoulder, blind, finger and lap) constructed from mizunara (Quercus mongolica var. grosseserrata) and bonded with PVA.
DE: Quercus-mongolica-grosseserrata; joints-timber; furniture-; testing-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-02489
UD: 9110
AN: F871674
DC: 1F066; 1F0433
SM: BN/Japan

319 of 788
TI: State of technology in drilling of furniture components.
OT: Stand der Technik beim Bohven von Kastenmobelteilen.
AU: Soine,-H
SO: Holz-als-Roh--und-Werkstoff. 1982., 40: 1, 1-12; BLL.
PY: 1982
LA: German
LS: English
AB: A comprehensive review, with 14 illustrations and 10 drawings, of drilling machines using modern electronic control systems. In the manufacture of furniture to customer's orders drilling is carried out towards the end of the manufacturing process. The setting of the bore-hole pattern is achieved by machinery having computer numerical control, which processes according to a selected programme. Various installations are described in detail.
DE: furniture-; manufacture-; boring-and-drilling
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-02645
UD: 9110
AN: F874320
DC: 1F0435; 1F066

320 of 788
TI: Solid wood cutting-out optimization.
OT: Optimizacija krojenja masivnog drva.
AU: Pizent,-Z
AD: RO 'Radin', Ravna Gora, Yugoslavia.
SO: Drvna-Industrija. 1982., 33: 9/10, 219-222; 6 ref. BLL.
PY: 1982
LA: Serbo-Croatian
LS: English
AB: An attempt was made to optimize the production of sawn timber for the manufacture of furniture by changing the arrangement of equipment, substituting band saws for circular saws, and reorganizing the operators' work. The problems of equipment stability, interconnection of machines, and transport and lay-out of machines were analysed. The resulting lay-out was better with regard to performance and working hours.
DE: furniture-; industries-; sawmilling-; layout-and-planning; equipment-; work-studies
GE: Yugoslavia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-02631
UD: 9110
AN: F877290
DC: 1F043; 1F0435; 1F066

321 of 788
TI: Effect of gang-ripping width on CIF yields from No. 2 Common oak lumber.
AU: Gatchell,-CJ; Anderson,-RB; Araman,-PA
AD: For. Sci. Lab., USDA For. Serv., Princeton, WV 24740, USA.
SO: Forest-Products-Journal. 1983., 33: 6, 43-48; 11 ref.
PY: 1983
LA: English
AB: A computer simulation was made, using the data in a databank based on 4200 bd ft of oak [see FA 35, 2705]. The simulation was for gang-ripping to 2-, 21/2- or 3-inch primary widths, with salvage to a min. size of 1 inch wide by 10 inches long, for use in the furniture industry. Overall random-length yield of CIF cuttings was 60% regardless of primary ripping widths. Narrower ripping widths produced more individual pieces and a greater number of longer pieces. Half or more of the accumulated surface area of random-length cuttings was in cuttings 40 inches or longer; more than 75% was in pieces 2 inches or wider.
DE: sawmilling-; simulation-; resawing-; edging-and-trimming; Quercus-; furniture-; raw-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-02895
UD: 9110
AN: F878520
DC: 1F0431; 1F066
SM: P

322 of 788
TI: Manggis (Koompassia excelsa (Becc) Taub.) as a furniture material.
AU: Moscoso,-NM; Moscoso,-VP; Cuaresma,-TG; Tamolang,-FN
AD: FORPRIDECOM, NSDB, College, Laguna 3720, Philippines.
SO: Forpride-Digest. 1980., 9: 3/4, 32-35; 41; 45; 61; 7 ref.
PY: 1980
LA: English
AB: An assessment was made of the properties of manggis as a possible substitute for narra (Pterocarpus indicus) in the expanding Philippine furniture industry. Manggis compared favourably with narra, and estimated costs for producing a manggis office table are given. Blades were found to dull easily when sawing manggis, probably because of included phloem which is a feature of the species: careful selection of lumber before further breakdown into furniture stock should reduce this problem.
DE: Koompassia-excelsa; furniture-; raw-materials; Philippines-
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1983 006-02964
UD: 9110
AN: F881068
DC: 1F0661
SM: P

323 of 788
TI: Industrialization of the manufacture of solid wood furniture. The structure of enterprises. CTB study no. R330.
OT: Industrialisation de la fabrication des meubles massifs. La structure des enterprises. Etude CTB R330.
CA: France, Centre Technique du Bois.
SO: Courrier-de-l'Industriel-du-Bois-et-de-l'Ameublement. 1980., No. 35, 34 pp.; 20 ref. PR.
PY: 1980
LA: French
AB: The general principles of the structure of enterprises are detailed, followed by an analysis of the development of the structure of furniture enterprises, based on a study of several French companies. It is concluded that the general management, production management, marketing, supply management and personnel functions need to be improved.
DE: furniture-and-furniture-making; forest-industry; economics-; labour-aspects; planning-; organization-; France-; forest-products-industries
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-00140
UD: 9110
AN: F718157
DC: 1F066; 1F10
SM: P

324 of 788
TI: New standards.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1980., No. 5, 13-14; BLL.
PY: 1980
LA: Russian
AB: A collection of abstracts of: 8 CMEA standards (ST SeV) and 4 Soviet standards (GOST), all revisions of earlier standards; and one new Soviet standard noticed below. The CMEA standards deal with methods of measurement (of wood shrinkage, MOE, shear modulus and logarithmic decrement; and the bending strength of fibreboard and particleboard), sampling trees and logs for strength testing, and the dimensions of softwood lumber; the Soviet ones with the design of school desks, non-returnable food boxes, and sanding machines, and wood preservation for usein tropical climates (GOST 15 155-79). GOST 20 022 11-79. Wood. Preservation. Method of simultaneous seasoning and impregnation. - Two methods using hot oil-borne preservatives are specified: one under vacuum at 95-100 deg C to avoid thermal reduction of wood strength; the other at atmospheric pressure at 100-130 deg C.
DE: standard-; shrinkage-and-swelling-of-wood; strength-testing; sawn-timber; seasoning-; furniture-; packing-containers; preservation-; wood-; sanding-; Europe-; eastern-; USSR-; solvent-drying
GE: CMEA-; USSR-; Tropical-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-00502
UD: 9110
AN: F732270
DC: 1F0115; 1F045; 1F055

325 of 788
TI: Specification of chipboard [particleboard] for furniture: performance levels and test methods.
CA: UK, Furniture Industry Research Association.
AD: Maxwell Rd., Stevenage, Herts., UK.
SO: FIRA-Handbook. 1981., No. 2, 91 pp.; 22 ref., 11 pl. TRADA.
PY: 1981
LA: English
DE: furniture-and-furniture-making; particleboard-; uses-; testing-
PT: Numbered-Whole
AV: pounds-sterling 10 to members; pounds-sterling 25 to non-members
CAB: 1F Forest-Products-Abstracts 1982 005-00675
UD: 9110
AN: F732314
DC: 1F066; 1F073; 1F0125

326 of 788
TI: Control of fungal attack in rubber logs.
AU: Tan,-AG; Chong,-KF; Tam,-MK
AD: Rubber Res. Inst., Kuala Lumpur, Malaya.

SO: Malaysian-Forester. 1980., 43: 4, 516-521; 2 ref.
PY: 1980
LA: English
AB: Storage trials over a 4-wk period were made on unbarked billets (18-33 cm diam.) of rubber wood for utilization as blockboard core or furniture stock. Underwater storage completely prevented sap stain. In an open yard, end-coating treatments with a mixture of Shellkote (a bituminous emulsion used to prevent end checking) and either 2% captafol of 3% Na pentachlorophenate (PCP) limited sap-stain penetration to an av. depth of 7-9 mm from the ends. Shellkote or Na-PCP alone were ineffective. [See next abstract]
DE: Hevea-brasiliensis; stain-fungi; furniture-and-furniture-making; storage-; protective-measures; water-storage; blockboard-; preservatives-; wood-; combined-with-finishes; captafol-; PCP-Na; tars-; end-coating
GE: Malaya-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-00855
UD: 9110
AN: F735878
DC: 1F0521; 1F042; 1F0661
SM: P

327 of 788
TI: Wood-based industry: trends in selected structural and economic factors through 1977.
AU: Bilek,-EM; Ellefson,-PV
AD: Dep. For. Resour., Coll. For., Univ. Minnesota, St. Paul, MN 55108, USA.
SO: Forest-Products-Journal. 1981., 31: 10, 48-54; 6 ref.
PY: 1981
LA: English
AB: Some of the results of the 1977 [US] Census of Manufactures Preliminary Reports are presented and discussed. Of the wood-based industries, Lumber and Wood Products had the largest number of establishments and employees. Paper and Allied Products, the most capital intensive, was dominant with respect to economic output and value added. Furniture and Fixtures accounted for only a small proportion of the total assets, employment and output. Compared with the 1972 Census, number of employees per establishment was down in each of the three groups, and wages had increased by 40-60%. In most cases, the increase in value added per production hour had more than equalled the wage increase (probably as a result of a combination of increased productivity and a product value increase in excess of general price levels).
DE: USA-; forest-industry; pulp-and-paper-industry; furniture-and-furniture-making; general-; statistics-; labour-aspects; economics-
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-00737
UD: 9110
AN: F736945

DC: 1F0217; 1F081; 1F066; 1F10
SM: P

328 of 788
TI: Investigation of the rheological properties of particleboard.
AU: Gordienko,-VV
AD: Ukrgipromebel', Ukrainian SSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1980., No. 8, 9; BLL.
PY: 1980
LA: Russian
AB: In connection with the production of decorative furniture surfaces in relief by stamping, preliminary measurements were made of surface deformation (depression) under a constant pressure of 6-25 MPa and of the subsequent relaxation. The results were qualitatively simulated by a rheological model of a Burger's solid.
DE: particleboard-; finishes-; physical-and-mechanical-properties; surface-quality-of-wood-products; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-00904
UD: 9110
AN: F742698
DC: 1F073; 1F0323; 1F0661

329 of 788
TI: Adjustable device for furniture testing with regard to mechanical properties.
OT: Variable Vorrichtung fur die mechanische Mobelprufung.
AU: Schubert,-R
AD: WKI, TU Braunschweig, German Federal Republic.
SO: Holz-Zentralblatt. 1979., 105: 51, 759; 3 ref., 2 pl. WKI-Mitteilung (1979) No. 298.
PY: 1979
LA: German
DE: furniture-and-furniture-making; strength-testing; mechanical-methods; joints-and-jointedassemblies
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-01191
UD: 9110
AN: F74590X
DC: 1F0661; 1F0323; 1F0125
SM: Reprint/1774

330 of 788
TI: Quality requirements for the strength and surface finish of wood-based materials in relation to their use [in building and furniture-making].
OT: Qualitatsanforderungen an Festigkeit und Oberflachenbeschaffenheit von Holzwerkstoffen im Hinblick auf ihren Einsatz.
AU: Kossatz,-G

AD: Wilhelm-Klauditz-Inst. Holzforsch., TU Braunschweig, German Federal Republic.
SO: Holz-Zentralblatt. 1979., 105: 6, 85-87; 21 ref., 3 pl. WKI-Mitteilung (1979) No. 291.
PY: 1979
LA: German
DE: surface-quality-of-wood-products; panels-; physical-and-mechanical-properties; uses-; buildings-; materials-; furniture-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-01135
UD: 9110
AN: F746306
DC: 1F046; 1F0323; 1F0434; 1F063; 1F0661
SM: Reprint/1779

331 of 788
TI: Strength of some furniture joints expressed by mathematical formulae. 2. Corner joints in [veneered particleboard] panels [glued] with plastic dowels [: test results].
OT: Pevnost' vybranych nabytkovych spojov v matematickom vyjadreni. II. cast'. Rohove spoje plosnych dielcov pomocou kolikov z plastickych latok.
AU: Adanowicz,-J; Dziegielewski,-S; Gajewski,-W
AD: Inst. Mech. Roln. AR (Akad. Roln.), Ul. Wojska Polskiego 28, Poznan, Poland.
SO: Drevarsky-Vyskum. 1979., 24: 1, 39-48; BLL.
PY: 1979
LA: Slovakian
DE: joints-; dowelled-; glued-; strength-testing; joints-and-jointed-assemblies; panels-; veneer/particle-boards; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-01416
UD: 9110
AN: F748561
DC: 1F0433; 1F0129; 1F0661
SM: P

332 of 788
TI: Kiln-drying hardwood dimension parts.
AU: Simpson,-WT; Schroeder,-JG
S O :
Research-Paper,-Forest-Products-Laboratory,-USDA-Forest-Service. 1981., No. 388, 8 pp.; 6 ref. PR.
PY: 1981
LA: English
AB: Advantages and disadvantages of drying only usable red oak cuttings, instead of whole boards, were analysed. The effects of kiln schedule and end coating on the quality of the cuttings were studied. Major problems arose with crook in the long pieces and cup in the wide pieces, but shorter, narrower pieces were of acceptable

quality. Kiln schedule did not significantly affect quality. End coating did reduce end checking, but was not thought necessary because checking and honeycombing were not severe enough to cause problems.
DE: Quercus-rubra; wood-; seasoning-; defects-; furniture-and-furniture-making; kiln-operation-and-schedules; quality-control; end-coating; defects-in-wood; checks-; shakes-; splits-; warping-; honeycombing-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1982 005-01125
UD: 9110
AN: F748935
OC: 1F045; 1F046; 1F066

333 of 788
TI: Wood gluing and glued constructions.
AU: Kulikov,-VA; Goncharov,-NA; Karataev,-SG; Ermolaev,-BV; Chubinskaya,-TV; Stovpyuk,-FS; Artamonov,-BI; Sirota,-II; Semenov,-VA; Voitovich,-VA; Freidin,-AS; Krist'yanson,-PG; Kiisler,-KR; Starkopf,-Yu.A; Keezel',-AF; Kondrat'ev,-VP; Doronin,-Yu.G; Klauzner,-GM; Askinadze,-IV; Zaitseva,-VS; Belousova,-MM
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1980., No. 9, 1-25; 4 ref. BLL.
PY: 1980
LA: Russian
AB: A special feature with 18 articles from the USSR, including: Kulikov, V.A.; Goncharov, N.A.; Karataev, S.G.; Ermolaev, B.V. [Ways of speeding up the wood gluing process.] 2-3. - A patented process for electrical resistance heating, and a method combining PF and UF adhesives. Goncharov, N.A.; Chubinskaya, T.V. [Preparation of wood surfaces for gluing.] 4-5 Stovpyuk, F.S.; Karataev, S.G. [Effect of the accuracy of wood finger preparation on the strength of finger joints.] 5-6 [2 ref.] Artamonov, B.I.; Sirota, I.I. [Gluing of tenon joints.] 13-14 [2 ref.] Improved PVA formulations for furniture, especially a 2-component PVA/UF resin adhesive. Semenov, V.A.; Voitovich, V.A. [Concentration of dibutyl phthalate in PVA dispersions.] 15-17. - Measurement of glue-line plasticity (with an improved apparatus) showed an opt. dibutyl phthalate concn. of 5-10%. Freidin, A.S. [Properties of modern Soviet glues for wooden glued constructions.] 17-19 Krist'yanson, P.G.; Kiisler, K.R.; Starkopf, Yu.A.; Keezel', A.F. [DFK alkylresorcinol glues for gluing wood.] 19-20 Kondrat'ev, V.P.; Doronin, Yu.G.; Klauzner, G.M.; Askinadze, I.V.; Freidin, A.S.; Zaitseva, V.S.; Belousova, M.M. [SFKh low-toxicity phenol-formaldehyde glue.] 20-22 [See also next abstract]
DE: glues-and-gluing; processes-; synthetic-glues; laminated-wood; manufacture-; joints-; glued-; strength-testing; joints-and-jointed-assemblies; USSR-; woodworking-; furniture-and-furniture-making
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-01693

UD: 9110
AN: F752367
DC: 1F0433; 1F079

334 of 788
TI: The utilization of beech.
OT: Zur Verwertung der Buche.
AU: Heckemann,-H
SO: Allgemeine-Forstzeitschrift. 1980., No. 43, 1155-1180; 7 pl.
PY: 1980
LA: German
AB: The paper reviews (for beech in W. Germany, and, in many cases, for competitive hardwoods/softwoods): regional felling statistics/assortment structures; age class structures; profitability/prices; import/export trends; sales trends (for beech timber from Hesse State Forests); beech plywood production; ownership of forests; and specific uses of beech, including as an energy source, in sleepers, and in furniture.
DE: Fagus-sylvatica; forest-types; stand-structure; stand-characteristics; age-structure; Germany-; West-; wood-; uses-; timber-trade; sleepers-; furniture-; plywood-; furniture-and-furniture-making; energy-resources; raw-materials; Fagus-; wood-supply-and-demand
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 0F Forestry-Abstracts 1982 043-03269
UD: 9110
AN: F756371
DC: 0DC03724; 1F060; 1F10
SM: P

335 of 788
TI: Furniture 'made to buyers' requirements'. Problems of process technology and economics.
OT: 'Mobelerzeugung nach Mass'. Probleme der Verfahrenstechnik und der Wirtschaftlichkeit.
AU: Soine,-H
SO: Holz-als-Roh--und-Werkstoff. 1980., 38: 10, 397-402; BLL.
PY: 1980
LA: German
LS: English
AB: The manufacture of furniture in single units or in small numbers to meet purchasers' requirements requires a different approach from that employed in large scale production. The influence on procedures employed for cutting and preparation of board materials, veneering, treatment of edges, assembly and finishing is discussed.
DE: furniture-and-furniture-making; forest-industry; scale-of-enterprise
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-01778
UD: 9110

AN: F764027
DC: 1F066

336 of 788
TI: Possibilities of replacing beech wood with other indigenous, Polish woods in the production of bentwood furniture.
OT: Badania nad zastapieniem drewna buka w produckciji mebli gietych innymi gatunkami drewna krajowego.
AU: Haufa,-T; Wojciechowska,-D
AD: Zakl Suszenia i Plastycz. Obrob. Drew., Inst. Technol. Drew., 60-645 Poznan, Poland.
SO: Prace-Instytutu-Technologii-Drewna,-Poland. 1980., 27: 3/4 (95/96), 19-31; 6 ref. Figures and tables have English captions. BLL.
PY: 1980
LA: Polish
LS: Russian, English
DE: Poland-; timbers-; furniture-and-furniture-making; bentwood-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-02003
UD: 9110
AN: F764951
DC: 1F0661

337 of 788
TI: Jackfruit, Artocarpus heterophylla (Moraceae) as a source of food and income.
AU: Thomas,-CA
AD: Dep. Biol. Sci., Ahmadu Bello Univ., Zaria, Nigeria.
SO: Economic-Botany. 1980., 34: 2, 154-159; 10 ref., 2 pl.
PY: 1980
LA: English
AB: The origin, distribution, floral morphology, regeneration (usually by seed) and uses are described. Fruits and seeds are eaten in a variety of dishes, including 'halva'. The timber is used in construction and furniture, and for dying. Leaves are used as fodder or compost, and bark in tanning. Trees are used for shade in coffee and orange plantations, and as supports for pepper.
DE: Artocarpus-heterophyllus; fruit-; edible-; shade-trees; for-crops; foliage-; uses-and-products; bark-; dyestuffs-; furniture-and-furniture-making; buildings-; materials-
GE: Tropical-
PT: Numbered-Part
CAB: 0F Forestry-Abstracts 1982 043-05203
UD: 9110
AN: F768966
DC: 0DC0393; 1F090; 1F060; 0DC0363
SM: P/HC

338 of 788

TI: Industrial surface treatment of wood-based boards.
OT: Industrielle Oberflachenbehandlung von plattenformigen Werkstoffen aus Holz.
AU: Bohme,-P
SO: 1980, 200 pp.; many ref. Leipzig, German Federal Republic; VEB Fachbuchverlag.
PY: 1980
LA: German
AB: The book, designed for engineers, technicians, and students concerned with furniture and cabinet manufacture, covers liquid coatings and (especially) solid coverings for flat or narrow moulded surfaces.
DE: overlays-for-wood; paints-and-painting; furniture-and-furniture-making
PT: Unnumbered-Whole
AV: 546 550 6
CI: review in Holzindustrie (1980) No. 5, 155. De. BLL.
CAB: 1F Forest-Products-Abstracts 1982 005-02018
UD: 9110
AN: F771870
DC: 1F075; 1F055; 1F066

339 of 788
TI: Aspects of the use of sliced veneer of 0.4 mm thickness.
AU: Murzin,-VS; Zigel'boim,-SN; Tyshenko,-PV; Bobrova,-NG
AD: Voronezh For. Engng. Inst., USSR.
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1981., No. 4, 7-9; BLL.
PY: 1981
LA: Russian
AB: A discussion (with recommendations) of problems at a furniture factory in Krasnodar, southern Russia, using locally sliced veneer of red African woods or beech, with special reference to glue exudation and excessive paint absorption.
DE: veneering-; furniture-and-furniture-making; veneer-; finishes-; coatings-; overlays-; quality-; defects-; slicing-; USSR-; Russian-region; Ciscaucasian-; plywood-and-veneer
GE: USSR-; Russia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-02244
UD: 9110
AN: F777755
DC: 1F075; 1F0661; 1F071

340 of 788
TI: [Papers presented at a] seminar on panels and furniture industries, Beijing, China, 20 March - 4 April 1981.
CA: United Nations Industrial Development Organization.
SO: 1981, No. ID/WG. 355, Limited distribution. X. Geneva, Switzerland.
PY: 1981
LA: English

AB: Three papers from the seminar are listed below:
DE: conferences-; symposia-; panels-; furniture-and-furniture-making
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1982 005-02491
UD: 9110
AN: F780472
DC: 1F070; 1F066; 1F0119
SM: X = TRADA

341 of 788
TI: A comparison of four techniques for producing high-grade furniture core material from low-grade yellow poplar.
AU: Araman,-PA
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S O :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1978., No. NE-429, ii + 7 pp.
PY: 1978
LA: English
DE: Liriodendron-tulipifera; furniture-and-furniture-making; sawmilling-; Liriodendron-tuilipfera; log-breakdown-methods
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1982 005-02998
UD: 9110
AN: F783805
DC: 1F0431; 1F066
SM: BN/USA

342 of 788
TI: Joining techniques in furniture manufacture.
OT: Techniques d'assemblage dans la construction de meubles.
AU: Ehrmann,-W
AD: Hafele KG, BP 309, D 7270 Nagold, German Federal Republic.
SO: Courrier-de-l'Industriel-du-Bois-et-de-l'Ameublement. 1979., No. 30, 12 pp.; BLL.
PY: 1979
LA: French
DE: furniture-and-furniture-making; joints-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-03014
UD: 9110
AN: F786412
DC: 1F0433; 1F0661
SM: P

343 of 788
TI: Influence of edging practices on furniture dimension stock yields from short hardwood lumber.
AU: Beaudoin,-M; Thomas,-RJ; Schroeder,-JG
AD: For. Fac., Univ. Laval, Que. G1K 7P4, Canada.

SO: Forest-Products-Journal. 1982., 32: 2, 53-59; 15 ref.
PY: 1982
LA: English
AB: Three different edging treatments were carried out on comparable lots of lumber: (a) no edging; (b) light edging; and (c) grade edging (edging to maximize board value). With the particular cutting bill used, there was n.s.d. between the yields from (a), (b) and (c). In a computer simulation [see FA 27, 6867] of cutting yields from (a), (b) and heavy-edged lumber (for several different cutting bills), heavy edging significantly reduced yield whereas light edging did not. The advantage of the computer analysis over the actual cutting experiment was in the ability to simulate many cut-up options and, in particular, in producing max. cutting lengths. Light edging was considered to be economically feasible because the cost of edging (which does not apparently reduce yield) is offset by savings in kiln utilization.
DE: sawmilling-; outturn-; recovery-; cutting-programmes; resawing-; edging-; trimming-; economics-; systems-analysis-and-simulation; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-02996
UD: 9110
AN: F793111
DC: 1F043; 1F0129
SM: P

344 of 788
TI: Marketing low-grade hardwoods for furniture stock - a new approach.
AU: Reynolds,-HW; Gatchell,-CJ
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1979., No. NE-444, ii + 7 pp.; 2 ref.
PY: 1979
LA: English
OE: furniture-and-furniture-making; marketing-of-forest-products
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1982 005-03351
UD: 9110
AN: F793518
DC: 1F10; 1F0661
SM: BN/USA

345 of 788
TI: Furniture cuttings made from logging residue: the three-sided cant system.
AU: Reynolds,-HW; Schroeder,-J
AD: NEFES, USDA For. Serv., Princeton, WV, USA.
S 0 :
Research-Paper,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1978., No. NE-417, ii + 4 pp.; 1 ref.

PY: 1978
LA: English
DE: furniture-and-furniture-making; sawmilling-; log-breakdown-methods; logging-; waste-; slash-; utilization-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1982 005-03314
UD: 9110
AN: F794167
DC: 1F092; 1F0661; 1F0431
SM: BN/USA

346 of 788
TI: The manufacturing of high quality curved-laminated bamboo furniture.
AU: Ma,-TP; Jai,-SY; Wang,-SL; Hwang,-CY; Chen,-SS
AD: For. Res. Inst., Taipei, Taiwan.
SO: Bulletin,-Taiwan-Forestry-Research-Institute. 1978., No. 310, 23 pp.; 7 ref., 1 pl. En tab. & fig.
PY: 1978
LA: Chinese
LS: English
AB: From Phyllostachys pubescens
DE: Phyllostachys-pubescens; bamboos-; wood-properties-and-uses; furniture-and-furniture-making; laminated-wood; uses-; manufacture-; bentwood-; composite-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-03227
UD: 9110
AN: F797753
DC: 1F072; 1F0934; 1F0661
SM: BN/China

347 of 788
TI: Stains on furniture with teak overlay.
AU: Wong,-WC; Wong,-CN
AD: For. Res. Inst., Kepong, Malaya.
SO: Malaysian-Forester. 1982., 45: 1, 94-100; 5 ref.
PY: 1982
LA: English
AB: Stains were found to develop gradually on components made from plywood groundwork surfaced with decorative teak veneers, resulting in their later rejection and considerable financial loss. The condition was associated with the use of face veneers of mersawa [Anisoptera spp.] on the groundwork. The m.c. of the groundwork was always higher in mersawa (15-19%) than in light red meranti [Shorea spp.] (10-12%). It is presumed that an unknown component of mersawa (a timber known to be unsuitable for formwork) reacted with the PVA adhesive.
DE: Anisoptera-spp.; Shorea-spp.; Tectona-grandis; Malaya-; plywood-and-veneer; woodworking-; furniture-and-furniture-making; stains-in-wood; plywood-; defects-; surface-overlays; raw-materials; Anisoptera-; veneer-; quality-

GE: Malaya-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1982 005-03229
UD: 9110
AN: F802593
DC: 1F072; 1F046; 1F0661
SM: P

348 of 788
TI: Technique for estimating yield of furniture squares and flat stock from flitches.
AU: Rast,-ED; Chebetar,-VP, Jr.
AD: NEFES, USDA For. Serv., Delaware, OH, USA.
S O :
Research-Note,-Northeastern-Forest-Experiment-Station,-USDA-Forest-Service. 1980., No. NE-287, 4 pp.; 1 pl.
PY: 1980
LA: English
DE: furniture-and-furniture-making; sawmilling-; outturn-; recovery-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1982 005-03011
UD: 9110
AN: F80288X
DC: 1F0431; 1F012
SM: BN/USA

349 of 788
TI: Technical requirements for furniture grade chipboard.
AU: Sparkes,-AJ
AD: Furniture Industry Res. Ass., Stevenage, Herts. S91 2EW, UK.
SO: German Federal Republic, European Federation of Particleboard Associations: Particleboard - today and tomorrow. International particleboard symposium, FESYP '78, 18-20 Sept. 1978, Congress Centrum, Hamburg. 1979., 277-284. Stuttgart, German Federal Republic; DRW-Verlag Weinbrenner KG.
PY: 1979
LA: English
LS: German, French
DE: furniture-and-furniture-making; particleboard-; uses-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-02242
UD: 9110
AN: F646327
DC: 1F073; 1F066
SM: See German FR, Eur. Fed... (1979)

350 of 788
TI: Surface quality of particleboards and its importance for manufactured products.
OT: Die Oberflachenqualitat und deren Bedeutung fur die daraus

hergestellten Produkte.
AU: Neusser,-H
AD: Osterreichischen Holzforschungsinstitutes, Arsenal, Fr. Grillstrasse 7, A-1030 Vienna, Austria.
SO: German Federal Republic, European Federation of Particleboard Associations: Particleboard - today and tomorrow. International particleboard symposium, FESYP '78, 18-20 Sept. 1978, Congress Centrum, Hamburg. 1979., 285-295; 3 pl. Stuttgart, German Federal Republic; DRW-Verlag Weinbrenner KG.
PY: 1979
LA: German
LS: English, French
DE: particleboard-; uses-; furniture-and-furniture-making
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-02243
UD: 9110
AN: F646338
DC: 1F073; 1F066
SM: See German FR, Eur. Fed... (1979)

351 of 788
TI: Testing of furniture and its importance for the particleboards used.
OT: Die Mobelprufung und ihre Bedeutung fur die verwendeten Spanplatten.
AU: Kratz,-W
AD: Wilhelm-Klauditz-Inst. f. Holzforschung, Bienroder Weg 54E, D-3300 Braunschweig, German Federal Republic.
SO: German Federal Republic, European Federation of Particleboard Associations: Particleboard - today and tomorrow. International particleboard symposium, FESYP '78, 18-20 Sept. 1978, Congress Centrum, Hamburg. 1979., 296-303; 2 ref. Stuttgart, German Federal Republic; DRW-Verlag Weinbrenner KG.
PY: 1979
LA: German
LS: English, French
DE: particleboard-; uses-; testing-; furniture-and-furniture-making
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-02244
UD: 9110
AN: F646349
DC: 1F073; 1F066
SM: See German FR, Eur. Fed... (1979)

352 of 788
TI: Manufacturing considerations of particleboard requirements for furniture application.
AU: Allan,-D
AD: Weyroc Ltd., Weybridge, Surrey KT15 2RY, UK.
SO: German Federal Republic, European Federation of Particleboard Associations: Particleboard - today and tomorrow. International particleboard symposium, FESYP '78, 18-20 Sept. 1978, Congress

Centrum, Hamburg. 1979., 304-325; 4 ref., 2 pl. Stuttgart, German Federal Republic; DRW-Verlag Weinbrenner KG.
PY: 1979
LA: English
LS: German, French
AB: During the manufacture of particleboard for the furniture industry, attention should be paid to: thickness variation and dimensional stability; strength properties (in particular, stiffness); surface properties; and machinability. Requirements for these properties are given for various applications.
DE: particleboard-; manufacture-; physical-and-mechanical-properties;furniture-and-furniture-making
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-02245
UD: 9110
AN: F64635X
DC: 1F073; 1F066
SM: See German FR, Eur. Fed... (1979)

353 of 788
TI: Moisture content requirements for furniture export to Australia.
AU: Kininmonth,-J
AD: For. Res. Inst., Rotorua, New Zealand.
SO: Forest-Industries-Review. 1978., 9: 8, 19, 21; 4 ref.
PY: 1978
LA: English
DE: furniture-and-furniture-making; Australia-; furniture-
GE: Australia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-00919
UD: 9110
AN: F660462
DC: 1F066; 1F0321
SM: P

354 of 788
TI: The production of chairs and other timber components [in Italy]. Paper presented to a UNIDO technical course on criteria for the selection of woodworking machinery, at Milan, Italy, 8-19 May, 1978.
AU: Speranza,-A
SO: 1978, 18 pp.; No. ID/WG. 277/2/Rev.1. Limited distribution. TRADA. Geneva, Switzerland; United Nations Industrial Development Organization.
PY: 1978
LA: English
DE: Italy-; woodworking-; furniture-and-furniture-making
GE: Italy-
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1981 004-00439
UD: 9110

AN: F662002
DC: 1F066

355 of 788
TI: End-uses of tropical hardwoods (technical and economic aspects, including research and development): furniture.
OT: Utilisations finales des bois feuillus tropicaux (aspects techniques et economiques, y compris la recherche et le developpement): ameublement.
AU: Fazioli,-V
SO: Economic Commission for Europe, Timber Committee: Seminar on the utilization of tropical hardwoods, Amsterdam (Netherlands), 15-18 May 1979. 1979., No. TIM/SEM.8/R.8, 4 + sum.; Limited distribution.
PY: 1979
LA: French
LS: English
DE: tropical-timbers; wood-; rational-economic-use; furniture-and-furniture-making
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01183
UD: 9110
AN: F67154X
DC: 1F0213; 1F0661
SM: See ECE, Timb. Cdmm. (1979)

356 of 788
TI: Short lumber in furniture manufacture.
AU: Bingham,-SA; Schroeder,-JG
AD: Ross Associates, Inc., Ashville, NC, USA.
SO: National-Hardwood-Magazine. 1976/1977., 8 pp.
PY: 1976
LA: English
AB: Four brief articles emphasising the greater scope for using short lumber in furniture manufacture. It is suggested that a new system for timber grading is needed which would specify minimum allowable widths and lengths of timber (most furniture requirements could be met with 36 inch or 42 inch timber). The difficulties of drying short lumber are described; results obtained with different drying schedules and methods are reviewed. Extra costs are involved in handling short timber; it is suggested that these could be reduced by transferring the conventional 'rough end' of furniture manufacture from the furniture mill to the sawmill.
DE: furniture-and-furniture-making
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-00920
UD: 9110
AN: F673651
DC: 1F0661
SM: Reprint/1267

357 of 788
TI: SYSTEM 6 - a way to use logs to make grade lumber.
AU: Reynolds,-JW; Schroeder,-J
AD: NE FES, USDA For. Serv., Princeton, WV, USA.
SO: Southern-Lumberman. 1977., 234: 2897, 9-10.
PY: 1977
LA: English
AB: The system involves cross-cutting small hardwood logs into 6-ft bolts which are sawn into 1-inch boards, then kiln dried and sold under modified grading rules. The system has been tested at pallet-part sawmills, where the residual lengths can be cross-cut into 4-ft lengths for the production of pallet parts. Boards are stickered in packages for drying and transport to the furniture mill. New and more efficient 'rough' mills for furniture manufacture are required to make the best use of these relatively inexpensive mill-run boards.
DE: furniture-and-furniture-making; sawmilling-; effect-of-log-size
GE: USA-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-00843
ID: 9110
GN: F673673
DC: 1F0431; 1F0661
IM: Reprint/1271

358 of 788
TI: S5.04 [Wood processing].
AU: Ager,-B; Araman,-PA; Ayla,-C; Parameswaran,-N; Breznjak,-M; Butkovic,-D; Herak,-V; Christiansen,-AW; Danielson,-JD; Dutina,-H; Eaton,-NJ; Gough,-DK; Hitrec,-V; Huber,-HA; Klamecki,-BE; Kohan,-GD; Larsen,-SE; Lyth,-K; Miller,-W; Kininmonth,-J; Riley,-S; Muller,-PH; Singmin,-M; Pizzi,-A
CA: International Union of Forestry Research Organizations.
CO: International Union of Forestry Research Organizations: The efficient use of the wood resource. Proceedings and Abstracts, IUFRO Division 5 Conference, Oxford, 8-16 April 1980. 1980., Abstracts, 83-101. Oxford, UK.
PY: 1980
LA: English
AB: Ager, B. Design of job and work area for a trimmer operator. Araman, P. A. Standard-sized hardwood blanks - a market opportunity for developing nations to increase exports of tropical hardwoods to the U.S.; and Standard-sized blanks for U.S. furniture and cabinet solid wood part requirements. Ayla, C.; Parameswaran, N. Tannin adhesive from Pinus brutia bark - macro- and microtechnological studies. Breznjak, M.; Butkovic, D.; Herak, V. Economical sawmill processing of lower grade roundwood - sawing of small diameter beech logs. Christiansen, A. W. Recent developments in the estimation of durability of wood-based panel products. Danielson, J. D. State of development of computer models and computer controls in the United States sawmill industry. Dutina, H. High frequency vibrations in circular sawblades during cutting and its importance

for the noise. Eaton, N. J. Optimising sawing schedules to best match the sawlog intake and sawn timber demand in a sawmill. Gough, D. K. Timber seasoning in a solar kiln. Hitrec, V. Arrangement of the saw blades by using computer technique while sawing softwood on frame saws. Huber, H. A. The development and use of the optimum furniture cutting program. Klamecki, B. E.; Mohan, G. D. Corrosion susceptibility of carbide cutting tool materials in wood cutting. Larsen, S. E. Man-machine landscape in sawmilling industry. Lyth, K. How does a limitation of the number of standard dimensions affect the yield? Miller, W.; Kininmonth, J.; Riley, S. Energy consumption in timber drying. Muller, P. H.; Singmin, M. An evaluation of the use of real logs in studies of simulated log sawing. Pizzi, A. Tannin-based adhesives: new theoretical aspects.
DE: sawmilling-; labour-aspects; economics-; effect-of-log-size; outturn-; recovery-; systems-analysis-and-simulation; automation-; marketing-of-forest-products; glues-and-gluing; natural-glues; panels-; durability-; saws/sawing-studies; vibration/noise-; circular-saws; frame-saws; seasoning-; solar-drying; fuel-and-power; computer-techniques; furniture-and-furniture-making
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01169
UD: 9110
AN: F683639
DC: 1F0119; 1F043; 1F070; 1F045
SM: See IUFRO (1980) Efficient use...

359 of 788
TI: Some questions on calculating the optimum breakdown of hardwood boards into dimension stock.
AU: Golovinskii,-BL; Feller,-MN
AD: UkrNIIMOD, Ukrainian SSR.
SO: Lesnoi-Zhurnal. 1980., No. 2, 125-128; 3 ref.
PY: 1980
LA: Russian
AB: Oak boards 400-450 mm wide and 3.5 m long, of grades I, II and III, were broken down by 'blind' transverse/longitudinal sawing to form a set of two pieces of furniture stock and four pieces of parquet stock. The yield of usable dimension stock was determined (67% from grade I boards, 66% from grade II, and 54% from grade III). Mathematical models are derived for board selection and for choosing the optimum method of board breakdown into dimension stock. The use of these models should increase the yield of dimension stock by 3-5%, as compared with current commercial practice in the USSR.
DE: sawmilling-; outturn-; recovery-; systems-analysis-and-simulation; furniture-and-furniture-making
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01072
UD: 9110
AN: F68408X
DC: 1F0431; 1F0129

360 of 788
TI: Standardization of performance quality of Swedish furniture.
OT: Die Standardisierung der Gebrauchseigenschaften von Mobel in Schweden.
AU: Berglund,-E
AD: Mobelinstitutet, Stockholm, Sweden.
SO: Holz-als-Roh--und-Werkstoff. 1980., 38: 1, 5-10; BLL.
PY: 1980
LA: German
LS: English
DE: furniture-and-furniture-making; standard-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01336
UD: 9110
AN: F686158
DC: 1F066; 1F0115

361 of 788
TI: Predicting the effect of face-veneering on mechanical properties of furniture panels.
OT: Badania nad mozliwosciami obliczania mechanicznych wlasciwosci okleinowanych plyt meblowych.
AU: Rybarczyk,-W; Wojciechowski,-Z
SO: Prace-Institutu-Technologii-Drewna. 1978., 25: 1/2, 49-77; 14 ref. BLL.
PY: 1978
LA: Polish
LS: Russian, English
AB: Mechanical properties were measured for (a) veneered (both sides) and (b) non-veneered particleboard and flakeboard and for (c) the face veneer used. Veneering improved strength. Equations are presented for predicting strength properties of (a) from those of (b) and (c). Theoretical values for MOE, bending strength and creep were within 20% of experimental results.
DE: particleboard-; strength-; panels-; veneer/particle-boards; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01339
UD: 9110
AN: F687016
DC: 1F070; 1F0323; 1F066

362 of 788
TI: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979.
CA: Economic Commission for Europe, Timber Committee.
SO: \ECE-Report\. 1979., No. TIM/SEM.10, many refs. Limited distribution. PR.
PY: 1979
LA: English
AB: The following 18 papers were presented:

DE: furniture-and-furniture-making; conferences-; symposia-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1981 004-01515
UD: 9110
AN: F688061
DC: 1F066; 1F0119

363 of 788
TI: Finger-jointing wood.
OT: [summary].
AU: Raknes,-E
AD: Inst. Woodworking & Wood Tech., Norway.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.1, 1 p.
PY: 1979
LA: English
DE: joints-; glued-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01516
UD: 9110
AN: F688072
DC: 1F066; 1F0433
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

364 of 788
TI: Tendencies in the application of wood and wood-based products in furniture production.
AU: Wnuk,-M
AD: Wood Tech. Inst., Poland.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.2, 5 pp.
PY: 1979
LA: English
DE: furniture-and-furniture-making; panels-; uses-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01517
UD: 9110
AN: F688083
DC: 1F066; 1F070
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

365 of 788
TI: Furniture production by types of product and trends in the Belorussian SSR.
AU: Dorozhok,-KM
AD: Minskproektmebel Production Combine, Belorussian SSR.
SO: Economic Commission for Europe, Timber Committee: Symposium on

economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.3, 4 pp. + sum.
PY: 1979
LA: Russian
LS: English
DE: USSR-; Belorussia-; woodworking-; furniture-and-furniture-making; forest-industry; wood-supply-and-demand
GE: Belorussian-SSR
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01518
UD: 9110
AN: F688094
DC: 1F066; 1F10
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

366 of 788
TI: Trends in the development of organizational structure in the furniture industry.
AU: Nemec,-L
AD: Res. Inst. Devel. of Woodworking & Furniture Industry, Czechoslovakia.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.4, 27 pp. + sum.
PY: 1979
LA: Russian
LS: English
DE: Czechoslovakia-; forest-industry; woodworking-; furniture-and-furniture-making; planning-; organization-
GE: Czechoslovakia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01519
UD: 9110
AN: F688105
DC: 1F066; 1F0214
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

367 of 788
TI: Influence of general technology on technical equipment and trends in the manufacture of furniture.
OT: Influence de la technique generale sur l'equipement et tendances du progres technique dans la fabrication des meubles.
AU: Pacynski,-T; Witkowski,-J
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.5, 7 pp. + sum.
PY: 1979
LA: French

LS: English
DE: furniture-and-furniture-making; woodworking-; machines-; tools-; equipment-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01520
UD: 9110
AN: F688116
DC: 1F066; 1F0435
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

368 of 788
TI: Furniture production: its human, social and cultural aspects.
OT: [summary].
AU: Weclawski,-J
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.6, 1 p.
PY: 1979
LA: English
DE: furniture-and-furniture-making; forest-industry; social-aspects
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01521
UD: 9110
AN: F688127
DC: 1F066; 1F027
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

369 of 788
TI: Recent important technological developments in, or relevant to, furniture manufacture - mechanization and automation.
OT: Recentes innovations techniques importantes dans la fabrication des meubles ou interessant la fabrication des meubles - mecanisation et automatisation.
CA: France, Centre Technique du Bois.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.7, 9 pp. + sum.
PY: 1979
LA: French
LS: English
DE: furniture-and-furniture-making; woodworking-; automation-; machines-; tools-; equipment-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01522
UD: 9110
AN: F688138
DC: 1F066; 1F0435
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

370 of 788
TI: Raw material aspects - trends in availability and use of wood (sawn softwood, temperate-zone hardwood, tropical hardwood, wood-based panels and veneer sheets) and non-wood materials.
OT: [summary].
CA: France, Centre Technique du Bois.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.8, 1 p.
PY: 1979
LA: English
DE: furniture-and-furniture-making; wood-; vs.-other-materials
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01523
UD: 9110
AN: F688149
DC: 1F066
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

371 of 788
TI: Co-operation in the furniture industry and between the industry, its suppliers and consumers - possibilities for co-ordination with the forest sector and forest industries.
OT: Cooperation dans l'industrie du meuble et cooperation entre cette industrie, ses fournisseurs, et ses consommateurs - possibilites de coordination avec le secteur des forets et les industries forestieres.
CA: France, Centre Technique du Bois.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.9, 9 pp. + sum.
PY: 1979
LA: French
LS: English
DE: furniture-and-furniture-making; France-; forest-industry
GE: France-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01524
UD: 9110
AN: F68815X
DC: 1F066; 1F0214
SM: See ECE, Timb. Comm (1979) No. TIM/SEM.10

372 of 788
TI: Outlook - requirements and availability of forest products [for the furniture industry].
OT: [summary].
CA: France, Centre Technique du Bois.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry,

Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.10, 1 p.
PY: 1979
LA: English
DE: furniture-and-furniture-making; forest-industry; wood-supply-and-demand
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01525
UD: 9110
AN: F688160
DC: 1F066; 1F10
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

373 of 788
TI: The most important problems in the protection of the work environment in the Polish furniture industry.
AU: Bielski,-J
AD: Inst. Hygiene & Labour Protection, Acad. of Agric., Poland.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.11, 17 pp.; 41 ref., 2 pl.
PY: 1979
LA: English
AB: The main occupational health hazards and their influence on workers' health are discussed. They include: noise and vibration; finishing materials, particularly synthetic varnishes; wooddust; and electromagnetic fields of high frequency. Relevant ergonomic research is reviewed.
DE: furniture-and-furniture-making; health-and-hygiene; Poland-; woodworking-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01526
UD: 9110
AN: F688171
DC: 1F066; 1F027
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

374 of 788
TI: Structure, organization and perspectives of the development of the Polish furniture industry.
AU: Bojarski,-J
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.12, 7 pp.
PY: 1979
LA: English
DE: Poland-; woodworking-; furniture-and-furniture-making
GE: Poland-
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1981 004-01527
UD: 9110
AN: F688182
DC: 1F066
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

375 of 788
TI: Exports as the developing component factor of the Yugoslav furniture industry.
AU: Orescanin,-DM
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.13, 9 pp.
PY: 1979
LA: English
DE: Yugoslavia-; woodworking-; trade-; furniture-and-furniture-making
GE: Yugoslavia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01528
UD: 9110
AN: F688193
DC: 1F066; 1F10
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

376 of 788
TI: Problems and trends in substitution within the forest products sector and with non-wood materials.
AU: Sparkes,-AJ
AD: Furniture Industry Res. Ass., Stevenage, Herts, UK.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.14, 7 pp.
PY: 1979
LA: English
AB: Solid wood, plywood and blockboard, particleboard, hardboard, MDF, plastics and metals are considered as alternative materials for furniture.
DE: furniture-and-furniture-making; wood-; vs.-other-materials; panels-; uses-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01529
UD: 9110
AN: F688204
DC: 1F066; 1F070
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

377 of 788
TI: Development of the furniture industry in the USSR.

AU: Liner,-FG
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.15, 13 pp. + sum.
PY: 1979
LA: Russian
LS: English
DE: USSR-; woodworking-; furniture-and-furniture-making
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01530
UD: 9110
AN: F688215
DC: 1F066
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

378 of 788
TI: The furniture industry and its markets in the ECE region.
CA: UK, Furniture Industry Research Association.
AD: Stevenage, Herts, UK.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.16, 21 pp.
PY: 1979
LA: English
DE: European-Communities; marketing-; marketing-of-forest-products; furniture-and-furniture-making
GE: European-Communities
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01531
UD: 9110
AN: F688226
DC: 1F066; 1F10
SM: See ECE, Timb. Comm (1979) No. TIM/SEM.10

379 of 788
TI: The Swiss furniture market - facts and trends.
OT: [summary].
AU: Pleitner,-HJ
AD: Swiss Res. Inst. Small Business, Switzerland.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.17, 1 p.
PY: 1979
LA: English
DE: Switzerland-; marketing-of-forest-products; furniture-and-furniture-making
GE: Switzerland-
PT: Numbered-Part

CAB: 1F Forest-Products-Abstracts 1981 004-01532
UD: 9110
AN: F688237
DC: 1F066; 1F10
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

380 of 788
TI: Research and development into the function, design and construction of furniture [in the UK] including market research.
AU: Gulliver,-W
AD: Furniture Industry Res. Ass., Stevenage, Herts., UK.
SO: Economic Commission for Europe, Timber Committee: Symposium on economic and technical developments in the furniture industry, Poznan (Poland), 5-10 Nov. 1979. \ECE-Report\. 1979., No. TIM/SEM.10/R.18, 10 pp.
PY: 1979
LA: English
DE: furniture-and-furniture-making; marketing-of-forest-products; research-; forest-products-industries
GE: UK-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01533
UD: 9110
AN: F688248
DC: 1F066; 1F10; 1F025
SM: See ECE, Timb. Comm. (1979) No. TIM/SEM.10

381 of 788
TI: Chestnut wood for the furniture industry.
OT: Kastanienholz fur die Mobelindustrie.
AU: Zimmermann,-G
AD: DRW-Verlag Weinbrenner-KG, Postfach 104, 7000 Stuttgart 1, German Federal Republic.
SO: Holz-Zentralblatt. 1980., 106: 137, 2039-2041; 3 pl. BLL.
PY: 1980
LA: German
LS: French
AB: An illustrated description of the manufacture of panels (substituting for oak panels), drawers and pallets in a new factory at Celle-sur-Belle, western France, built with government aid to increase the utilization of the abundant local resource of chestnut [Castanea sativa]. The raw material consists of small-sized 2-m bolts of coppice origin grown on a 25-yr rotation. The distribution of chestnut in France is tabulated with a sketch map.
DE: Castanea-sativa; distribution-; France-; forests-and-forestry; general-; furniture-and-furniture-making; pallets-; woodworking-
GE: France-
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1981 042-03762
UD: 9110
AN: F693319
DC: 0DC0214; 1F0661; 1F0641

382 of 788
TI: Methods of test for finishes for wooden furniture [Parts 1-6].
CA: UK, British Standards Institution.
SO: British-Standard. 1980., No. BS 3962: 1980, 3 + 4 + 3 + 3 + 3 + 6 pp.; BLL.
PY: 1980
LA: English
AB: Six standards cover this subject: Part 1. Assessment of low angle glare by measurement of specular gloss at 85 deg ; Part 2. Assessment of surface resistance to wet heat; Part 3. Assessment of surface resistance to dry heat; Part 4. Assessment of surface resistance to cold liquids; Part 5. Assessment of surface resistance to cold oils and fats; and Part 6. Assessment of resistance to mechanical damage.
DE: Great-Britain; standard-; finishes-and-finishing; furniture-and-furniture-making
GE: UK-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1981 004-01401
UD: 9110
AN: F693957
DC: 1F0115; 1F066

383 of 788
TI: Strength of selected furniture joints expressed by mathematical formulae. 1. Corner dowel joints in panels.
OT: Pevnost' vybranych nabytkovych spojov v matematickom vyjadreni. I. cast'. Rohove spoje plosnych dielcov pomocou drevenych kolikov.
AU: Adanowicz,-J; Bilski,-A; Dziegielewski,-S
AD: Ustav mech. technol. dreva, Pol'nohospodarska Akad., Poznan, Poland.
SO: Drevarsky-Vyskum. 1978., 23: 2, 111-124; 3 ref. BLL.
PY: 1978
LA: Slovakian
LS: Russian, German, English
AB: Another version of work already noticed [see FPA 1, 2090] on glued beech dowel joints in orthogonally butted panels of veneered particleboard. The joints were tested in static tension and compression and dynamic loading. The results (tabulated or graphed) were analysed by dimensionless numbers to determine the influence of various factors, the most important of which was the ratio of panel thickness to dowel diam.
DE: furniture-and-furniture-making; joints-; dowelled-; strength-testing; joints-and-jointed-assemblies; panels-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01738
UD: 9110
AN: F695035
DC: 1F0433; 1F0129; 1F0661; 1F075
SM: P

384 of 788
TI: Out-of-plane strength and stiffness of dowel joints.
OT: Resistance en flexion a plat et rigidite d'assemblages tourillonnes (Translation).
AU: Eckelman,-CA
AD: Dep. For. & Nat. Resour., Purdue Univ., Lafayette, IN, USA.
SO: Courrier-de-l'Industriel-du-Bois-et-de-l'Ameublement. 1980., No. 34, 8 pp.; 8 ref. PR. Transl. from Forest Products Journal (1979) 29 (8) 32-38. See FPA 3, 596.
PY: 1980
LA: French
DE: joints-; dowelled-; strength-testing; joints-and-jointed-assemblies; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1981 004-01739
UD: 9110
AN: F695728
DC: 1F0433; 1F0323; 1F0661
SM: P

385 of 788
TI: Stinkwood - Tree of the Year 1980.
SO: Trees-in-South-Africa. 1980., 32: 2, 46-48; 1 pl.
PY: 1980
LA: English
AB: Black stinkwood (Ocotea bullata), a large evergreen tree, is widely distributed in South Africa and its wood is extensively used for furniture-making. The morphology, reproduction, silviculture and distribution of O. bullata in South Africa are described.
DE: Ocotea-bullata; South-Africa; furniture-and-furniture-making
GE: South-Africa
PT: Numbered-Part
CAB: 0F Forestry-Abstracts 1981 042-03953
UD: 9110
AN: F695981
DC: 0DC071; 1F0661; 0DC03729
SM: P

386 of 788
TI: SEMTAP (Serpentine End Match Tape Program): the easy way to program your numerically controlled router for the production of SEM joints.
AU: Coleman,-RE
AD: NE FES, USDA For. Serv., Princeton, WV, USA.
SO: USDA-Forest-Service-Research-Paper,-Northeastern-Forest-Experiment-Station. 1977., No. NE-384, 5 pp.; 1 ref.
PY: 1977
LA: English
AB: A program is described for cutting SEM joints (curved joints used in furniture-making and disguised as part of the grain pattern of the joined pieces) that is based on the amplitude and period of

the sine wave describing the joint. Used with an IBM-370, the cost per run of the SEMTAP programme is less than $1.00.
DE: joints-; glued-; joinery-; computer-techniques; furniture-and-furniture-making
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1981 004-01740
UD: 9110
AN: F69662X
DC: 1F0433; 1F0129; 1F0661
SM: BN/USA

387 of 788
TI: Serpentine end matching: a test of visual perception.
AU: Hansen,-BG; Gatchell,-CJ
AD: NE FES, USDA For. Serv., Princeton, WV, USA.
S 0 :
USDA-Forest-Service-Research-Paper,-Northeastern-Forest-Experiment-Station. 1978., No. NE-408, 5 pp.; 3 pl.
PY: 1978
LA: English
AB: [See preceding abstract] The visual acceptability of the technique was tested by exposing observers with knowledge of hardwoods and furniture manufacture to samples of SEM. SEM joints were rarely identified but those in oak [Quercus rubra] were more readily perceived than those in cherry [Prunus serotina].
DE: Quercus-rubra; wood-; joinery-; Prunus-serotina; joints-; glued-; furniture-and-furniture-making
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1981 004-01741
UD: 9110
AN: F696630
DC: 1F0433; 1F0661
SM: BN/USA

388 of 788
TI: Cutting yields from standard hardwood lumber grades when gang ripping.
AU: Hallock,-H
AD: FPL, USDA For. Serv., Madison, WI, USA.
S 0 :
Research-Paper,-Forest-Products-Laboratory,-USDA-Forest-Service. 1980., No. FPL 370, 13 pp.; 3 ref. PR.
PY: 1980
LA: English
AB: Nomograms are given for the prediction of furniture clear cutting yields from standard National Hardwood Lumber Association grades, when the lumber is processed by gang ripping. Yields are shown as full ripped width, specified length cuttings, and salvage cuttings 1 inch and wider of the specified length. Instructions and examples are provided.
DE: sawmilling-; outturn-; recovery-; furniture-and-furniture-making; grading-and-sorting; sawn-timber

GE: USA-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1981 004-02053
UD: 9110
AN: F704451
DC: 1F0431; 1F046; 1F0661

389 of 788
TI: A case study in integrated utilization of hard maple [Acer saccharum].
AU: Pnevmaticos,-SM
SO: Report,-Eastern-Forest-Products-Laboratory,-Canada. 1978., No. OPX195E, 29 pp.; 4 ref. PR.
PY: 1978
LA: English
AB: Live sawing and sawing around patterns, drying and processing of lumber were studied at an integrated sawmill/furniture plant. Lumber recovery and sawing times are tabulated for different sawing patterns and yields of furniture components. Processing times and costs are given for different sawing patterns and lumber grades. Sawmill productivity was higher for live sawing than for sawing around, but lumber recovery was n.s.d. The cost advantage of livesawing was minimal when there was a large proportion of low-grade heartwood and where therewas a good market for small timbers that can be produced from the centre of a log by sawingaround. Component costs were reduced by over 20% by integrating the sawmilling and component manufacturing parts of the plant.
DE: Acer-saccharum; wood-; sawmill-studies; furniture-; furniture-and-furniture-making; sawmilling-; Acer-; outturn-; recovery-; log-breakdown-methods
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1981 004-02178
UD: 9110
AN: F712778
DC: 1F0431; 1F066

390 of 788
TI: The development of furniture test methods and materials - some implications related to product design.
AU: Spillard,-AD
AD: Furniture Ind. Res. Ass., Stevenage, Herts., UK.
SO: UK, Institute of Purchasing and Supply: Forest products for the furniture industry - where do we go from here? \a conference held at Royal Lancaster Hotel, London, Oct. 19, 1978\. 1978., 10 pp.
PY: 1978
LA: English
DE: furniture-and-furniture-making
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02907
UD: 9110
AN: F482141

DC: 1F0661; 1F0125
SM: See UK, Inst. & Purch. & Supply (1978)

391 of 788
TI: Forest products for the furniture industry - where do we go from here? [a conference held at Royal Lancaster Hotel, London, Oct. 19, 1978].
CA: UK, Institute of Purchasing and Supply.
AD: Ascot, Berks., UK.
SO: 1978, 26 pp.; X.
PY: 1978
LA: English
AB: The unpublished proceedings of the conference, consisting of notices and preprints of 4 papers (see following abstracts).
DE: conferences-; symposia-; furniture-; furniture-and-furniture-making
GE: UK-
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1980 003-02904
UD: 9110
AN: F525173
DC: 1F0661; 1F0119
SM: X = CFB

392 of 788
TI: Furniture cosmetics.
AU: Rose,-DE
AD: Gliksten & Rose Ltd., UK.
SO: UK, Institute of Purchasing and Supply: Forest products for the furniture industry - where do we go from here? \a conference held at Royal Lancaster Hotel, London, Oct. 19, 1978\. 1978., 6 pp.
PY: 1978
LA: English
AB: The merits of wood veneers are discussed, and their use is recommended (on grounds of appearance) in preference to vinyl 'wood-look' veneers.
DE: furniture-and-furniture-making; veneering-
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1980 003-02905
UD: 9110
AN: F525184
DC: 1F0661; 1F071
SM: See UK, Inst. Purch. & Supply (1978)

393 of 788
TI: The raw materials.
AU: Mundy,-C
AD: Abrams & Mundy Ltd., UK.
SO: UK, Institute of Purchasing and Supply: Forest products for the furniture industry - where do we go from here? \a conference held at Royal Lancaster Hotel, London, Oct. 19, 1978\. 1978., 5 pp.

PY: 1978
LA: English
AB: A discussion of the present and future trends in consumption and supply of several hardwoods.
DE: furniture-and-furniture-making; timber-trade; marketing-information
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02906
UD: 9110
AN: F525195
DC: 1F0661; 1F10
SM: See UK, Inst. Purch. & Supply (1978)

394 of 788
TI: Timber you win, plastic who knows.
AU: Downs,-J
AD: Dennis & Robinson Ltd., UK.
SO: UK, Institute of Purchasing and Supply: Forest products for the furniture industry - where do we go from here? \a conference held at Royal Lancaster Hotel, London, Oct. 19, 1978\. 1978., 5 pp.
PY: 1978
LA: English
AB: A discussion of the importance of wood-based panels in kitchen furniture, including the factors influencing future trends.
DE: furniture-and-furniture-making; panels-; wood-supply-and-demand
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02908
UD: 9110
AN: F525217
DC: 1F0661; 1F070
SM: See UK, Inst. Purch. & Supply (1978)

395 of 788
TI: The density and strength of Brazilian mahogany.
AU: Brazier,-JD; Lavers,-G
AD: Building Res. Establish., Princes Risborough Lab., Princes Risborough, Bucks., UK.
SO: Journal-of-the-Institute-of-Wood-Science. 1977., 7: 5, 15-19.
PY: 1977
LA: English
AB: Data on m.c., density and strength properties are given for Brazilian mahogany (Swietenia macrophylla and Swietenia krukovii) of 3 different geographical origins. It is considered suitable for stressed parts in furniture provided care is taken to avoid using wood with markedly interlocked, irregular or cross grain (especially those of small-cross section) in stressed parts.
DE: Swietenia-krukovii; Swietenia-macrophylla; furniture-and-furniture-making; wood-; general-information-on-timbers; physical-and-mechanical-properties; individual-species
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00017

UD: 9110
AN: F543719
DC: 1F030; 1F0661
SM: P

396 of 788
TI: Utilization of red oak Press-Lam as upholstered furniture frame stock.
AU: Eckelman,-CA; Hoover,-WL; Jokerst,-RW; Youngquist,-JA
AD: Dep. For. & Natural Resour., Purdue Univ., W. Lafayette, Ind., USA.
SO: Forest-Products-Journal. 1979., 29: 5, 30-40; 10 ref., 2 pl.
PY: 1979
LA: English
AB: Press-Lam manufactured from red oak [Quercus rubra] was not as strong as solid red oak, but due to lower variability, design stresses for Press-Lam would probably be nearly as high as those for solid red oak and certainly as high as those for yellow-poplar [Liriodendron tulipifera]. Shear strength was only about 53% that of solid red oak. Tests showed that the machining properties of Press-Lam would be adequate for the manufacture of furniture frame stock. Screw and dowel holding strength of Press-Lam were less than those for solid red oak but about the same as for yellow-poplar. Metal-toothed connector plates could be used to produce structural quality joints in Press-Lam.
DE: Quercus-rubra; wood-; laminated-; physical-and-mechanical-properties; Liriodendron-tulipifera; laminated-wood; uses-; furniture-and-furniture-making; joints-; connectors-; Press-Lam
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00152
UD: 9110
AN: F551694
DC: 1F072; 1F066
SM: P

397 of 788
TI: Open grain and high-build finishing are now an established success.
SO: Woodworking-Industry. 1978., 35: 5, 23-24.
PY: 1978
LA: English
AB: A discussion of some of the papers presented at a seminar on developments in UV curing of finishes on furniture, held at Bald Hind Hotel, Chigwell, UK, on 5th April, 1978.
DE: finishes-and-finishing; furniture-and-furniture-making; conferences-; symposia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00420
UD: 9110
AN: F553740
DC: 1F055; 1F066; 1F0119

SM: P

398 of 788
TI: Determining the force developed by the stamp in the elastic method of pressing bent-and-glued elements.
OT: Opredelenie usiliya, razvivaemogo puansonom pri elastichnom sposobe pressovaniya gnutokleenykh elementov.
AU: Kostrikov,-PV; Bogatyr'ev,-RA
AD: Minmebel'prom, Moldav. SSR, USSR.
SO: Lesnoi-Zhurnal. 1978., No. 4, 153-158; 2 ref.
PY: 1978
LA: Russian
AB: In continued work on hydraulic moulding presses [see FA 34, 3101, 6605] formulae are derived for determining the work done by the stamp in bending a set of veneer plies, and the force developed by the stamp in order to impart the desired shape to the set of veneers. The application of the formulae is illustrated with a worked example for a set of 19 birch plies 1.15 mm thick, angle of bending 82 deg [as used in the manufacture of bent-and-glued elements of furniture].
DE: bending-; wood-; woodworking-; machines-; tools-; equipment-; furniture-and-furniture-making
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00364
UD: 9110
AN: F557084
DC: 1F0432; 1F0435

399 of 788
TI: Choice of optimum thickness for the horizontal panel elements of furniture.
OT: O vybore optimal'noi tolshchiny gorizontal'nykh shchitovykh elementov mebeli.
AU: Tokman,-IZ
AD: Lesotekh. Inst., L'vov, USSR.
SO: Lesnoi-Zhurnal. 1978., No. 4, 80-84; 2 ref.
PY: 1978
LA: Russian
AB: Two nomograms are constructed to assist in determining the optimum thickness of these elements. The nomograms take account of the dimensions, the function, and the mechanical properties of the materials. The types of panel material considered are medium and heavy 3-layer particleboard, particleboard faced with synthetic or natural veneer, solid wood, and plywood.
DE: furniture-and-furniture-making
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00437
UD: 9110
AN: F557326
DC: 1F0661

400 of 788
TI: Seasonal variations of moisture contents of furniture in use.
AU: Percival,-J
AD: Furniture Industry Res. Assoc., Stevenage, Herts., UK.
SO: FIRA-Furniture-Research-Manual. 1979., 14: 21-44; PR.
PY: 1979
LA: English
AB: The m.c. was determined over one yr for samples of wood and particleboard panels in use in 5 private houses, a warehouse, a furniture showroom and a hotel. In the houses, m.c. averaged 11%, ranging from 8% in mid-winter to 13% at other times. At other sites, m.c. averaged 9% and varied from 7 to 12%. This lower m.c. was attributed to continuous day and night heating compared with intermittent daytime heating and no night heating in the houses.
DE: furniture-and-furniture-making; moisture-; wood-; measurement-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00657
UD: 9110
AN: F56242X
DC: 1F0661; 1F0321

401 of 788
TI: Computer-controlled laser shapes wood.
AU: Ford,-E
SO: Wood-and-Wood-Products. 1979., 84: 5, 39-40; 2pl. TRADA.
PY: 1979
LA: English
AB: The E 183/2, developed by Adolf Held KG of Germany, is described. A wide range of products can be cut including intricately shaped furniture components and melamine-laminated particleboard. Conventional cutting tools are replaced by optical systems which focus the laser beam onto the surface of the workpiece. Although the intense heat melts the material very rapidly, the heat-affected area is very small and thermal distortion is therefore minimal.
DE: woodworking-; lasers-; moulding-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00598
UD: 9110
AN: F562496
DC: 1F0434; 1F0435

402 of 788
TI: A subterranean timber harvest.
OT: 'Holzernte' in Tiefbau.
SO: Holz-Zentralblatt. 1977., 103: 123, 1872; 1 pl.
PY: 1977
LA: German
AB: An illustrated account of the recovery and conversion of an exceptionally large (10 m long, 1.4 m diam.) bog oak [Quercus robur

s.l.] by a furniture company in Bochum, German Federal Republic. The stem, weighing 20 t complete with buttresses and crown base, was found during the excavation of a fish pond and recovered after cross-cutting. The crown base was converted to sawn timber and the remaining parts were peeled for the valuable blue-black 'chiaroscuro' veneer.
DE: Quercus-robur; wood-; old-wood; veneer-; raw-materials; old-and-fossil-wood; furniture-and-furniture-making; Germany-; West-
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00626
UD: 9110
AN: F567336
DC: 1F049; 1F061; 1F071

403 of 788
TI: Particleboard for surface overlaying purposes. Part 1. General introduction, overlaying methods and specifications for the underlying boards.
OT: Spanplatten fur Beschichtungszwecke. 1. Teil: Allgemeines, Beschichtungstechnik, Anforderungen an die Tragerplatten.
AU: Reiter,-L; Gfeller,-B
AD: Forschungsinst. f. Holzwerkstoffe u. Holzleime e.V., Karlsruhe, German Federal Republic.
SO: Holz-Zentralblatt. 1977., 103: 102, 1509-1512.
PY: 1977
LA: German
AB: A review of the types of surface overlays for particleboard used in the furniture industry, methods of gluing and application, and particleboard specifications (density, strength, resin content and m.c.).
DE: particleboard-; surface-overlays; uses-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00671
UD: 9110
AN: F567842
DC: 1F073; 1F0661

404 of 788
TI: Particleboard for surface overlaying purposes. Part 2. Particle size distribution, standard properties and face strength of typical particleboards for furniture making.
OT: Spanplatten fur Beshichtungszwecke. 2. Teil: Spangefuge, Standardeigenschaften, und Abhebefestigkeit typischer Mobel-Spanplatten.
AU: Reiter,-L; Gfeller,-B
SO: Holz-Zentralblatt. 1977., 103: No. 123, 1878-1881; 35 ref.
PY: 1977
LA: German
AB: Results of tests on 20 types of W. German 19 mm particle board,

7 for veneering, 7 for plastic laminates, 3 for high pressure application of melamine resin films, and 3 for lacquering. Details are given for: wood and particle type present in the surface and core layers; particle size distribution (from manufacturers' samples); manufacturing conditions; board density; bending, shear and face strength; and thickness swelling. Some comparative data are tabulated for 13-mm, 19-mm and 22-mm particleboards from other tests made in 1968-1973. For the 19-mm boards, there was little systematic difference between fine-particle board types in the properties studied; a board density of 600-700 kg/m3 was shown to be adequate.
DE: particleboard-; surface-overlays; physical-and-mechanical-properties; uses-; furniture-and-furniture-making
GE: German-Federal-Republic
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00672
UD: 9110
AN: F567853
DC: 1F073; 1F0661; 1F032

405 of 788
TI: Guide to Japanese woodworking machinery.
CA: Japan, Woodworking Machinery Association.
SO: 1979, 147 pp.; many pl. PR. Tokyo, Japan.
PY: 1979
LA: English
AB: Descriptions, illustrations and specifications are given for over 70 types of sawmill, veneer and plywood, and woodworking machines, including their functions, operating procedures, and design.
DE: sawmilling-; equipment-; woodworking-; machines-; tools-; furniture-and-furniture-making; veneer-; manufacture-; plywood-; working-
GE: Japan-
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1980 003-01300
UD: 9110
AN: F568689
DC: 1F0435; 1F071; 1F066; 1F072

406 of 788
TI: Out-of-plane strength and stiffness of dowel joints.
AU: Eckelman,-CA
AD: Dep. For. & Nat. Resour., Purdue Univ., Lafayette, Ind., USA.
SO: Forest-Products-Journal. 1979., 29: 8, 32-38; 8 ref., 1 pl.
PY: 1979
LA: English
AB: Three types of test were conducted to evaluate the strength of UF-glued sugar maple [Acer saccharum] dowel joints in black walnut uprights and rails: (a) withdrawal; (b) 'edgewise' bending (in which 2 dowels were loaded in the same plane as the rail and the

upright, as in most chair side frames); and (c) 'flatwise' bending (in which the planes of the upright and the rail were at right angles to each other and 2 dowels were loaded in a third plane, as in the side frame of a typical sofa). In (c), 3 types of joint fit (flush, 1/16 inch gap, and 1/8 inch gap) and rails of different thickness (1, 11/4 and 11/2 inches) were compared. An equation was developed for predicting joint strength from: dowel diam.; ultimate withdrawal strength; MORof the dowel wood; and rail thickness. Joints were more flexible in (c) than in (b).Loose-fitting joints were more flexible, but weaker than tight-fitting joints.
DE: joints-; dowelled-; strength-testing; joints-and-jointed-assemblies; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00596
UD: 9110
AN: F568744
DC: 1F0433; 1F0323; 1F0661
SM: P

407 of 788
TI: Major import markets for wooden household furniture.
CA: International Trade Centre.
SO: 1975, 192 pp. Geneva, Switzerland; ITC UNCTAD/GATT.
PY: 1975
LA: English
AB: Results are presented from a survey of world markets with particular emphasis on France, German Federal Republic, USA and Japan.
DE: furniture-and-furniture-making; timber-trade; marketing-information
PT: Unnumbered-Whole
AV: $30
CAB: 1F Forest-Products-Abstracts 1980 003-00713
UD: 9110
AN: F568876
DC: 1F10; 1F0661
SM: BN/Int./Misc.

408 of 788
TI: Survey of material requirements and consumption of the furniture joinery industries.
AU: Cuaresma,-TG; Amio,-EC; Moscoso,-VP; Monzon,-NS
AD: FORPRIDECOM, NSDB, Coll., Laguna 3720, Philippines.
SO: Forpride-Digest. 1977., 6: 1, 28-34; 3 ref., 1 pl. BLL.
PY: 1977
LA: English
AB: A survey of 225 furniture and joinery factories showed that narra (Pterocarpus indicus) and tangile (Shorea polysperma) were the most common species used. Data are given for consumption, demand, and prices of narra and tangile. Furniture design was strongly influenced by American, Scandinavian and oriental designs.
DE: Shorea-polysperma; Pterocarpus-indicus;

furniture-and-furniture-making; timber-trade; marketing-information; wood-supply-and-demand
GE: Philippines-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-00874
UD: 9110
AN: F572693
DC: 1F0661; 1F10
SM: P

409 of 788
TI: Veneers and colours used by cabinet makers in the 18th century.
OT: Furniere und Farben der Ebenisten im 18. Jahrhundert.
AU: Stuermer,-M
SO: Maltechnik-Restauro. 1978., 84: 1, 9-27.
PY: 1978
LA: German
AB: Many different species (28 of which are mentioned here) were used for veneer to give a wide range of colours. The less common colours were obtained by staining wood with solutions such as textile dyes or sulphates of iron or copper.
DE: furniture-and-furniture-making; veneer-; raw-materials; finishes-; coatings-; overlays-; staining-of-wood; colour-of-wood
PT: Numbered-Part
CI: AATA 15, 446. X.
CAB: 1F Forest-Products-Abstracts 1980 003-01104
UD: 9110
AN: F579689
DC: 1F0661; 1F071; 1F055
SM: X = PR

410 of 788
TI: Universal decimal classification: UDC 684 furniture and allied industries.
CA: UK, British Standards Institution.
SO: British-Standard. 1979., No. BS 1000\684\: 1979, 8 pp.; 3 ref. PR.
PY: 1979
LA: English
DE: standard-; furniture-and-furniture-making; classification-
GE: UK-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1980 003-00941
UD: 9110
AN: F58090X
DC: 1F0115; 1F066

411 of 788
TI: Feasibility of producing and utilizing red oak Press-Lam for upholstered furniture framestock.
AU: Hoover,-WL; Eckelman,-CA; Jockerst,-RW; Youngquist,-JA

S O :
Research-Bulletin,-Agricultural-Experiment-Station,-Purdue-University. 1978., No. 956.
PY: 1978
LA: English
DE: Quercus-rubra; wood-; laminated-; Press-Lam; furniture-and-furniture-making; laminated-wood; uses-; physical-and-mechanical-properties
PT: Numbered-Whole
CI: title in Forest Products Journal (1979) 29, 25.
CAB: 1F Forest-Products-Abstracts 1980 003-01114
UD: 9110
AN: F58629X
DC: 1F072; 1F0661

412 of 788
TI: Economic feasibility of red oak Press-Lam for upholstered furniture framestock.
AU: Hoover,-WL; Eckelman,-CA; Jockerst,-RW; Youngquist,-JA
AD: Dep. For. & Natural Resour., Purdue Univ., W. Lafayette, IN, USA.
SO: Forest-Products-Journal. 1979., 29: 11, 21-25; 8 ref.
PY: 1979
LA: English
AB: A previous study [see preceeding title] showed that Press-Lam composed of 0.25-inch thick parallel laminated red oak had adequate strength and working properties to substitute for solid lumber in upholstered furniture frames. An allowable purchase price of $488 per 1000 bd ft (1977 basis) was estimated from a cost study of 3 major furniture manufacturers. At a list price of $450 internal rate of return would be 18.1% with a 5-yr payback; if the allowable purchase price was used as list price the rate of return would increase to 25%. The analysis showed that Press-Lam could be produced and marketed at a profit and the margin was such that money could be spent on improving strength properties.
DE: Quercus-rubra; wood-; laminated-; Press-Lam; furniture-and-furniture-making; marketing-of-forest-products; laminated-wood; uses-; economics-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-01115
UD: 9110
AN: F586300
DC: 1F072; 1F0661; 1F10
SM: P

413 of 788
TI: Furniture and woodworking: health and safety 1977.
CA: UK, HM Factory Inspectorate.
SO: 1979, 24 pp.; PR. London, UK; HMSO.
PY: 1979
LA: English
AB: This report discusses: safeguarding of machinery; safe

collection of wood waste; wood dust and health; and noise problems. Statistics are appended on accident rates and legislation.
DE: accidents-and-their-prevention; health-and-hygiene; woodworking-; labour-aspects; furniture-and-furniture-making
GE: UK-
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1980 003-01203
UD: 9110
AN: F592218
DC: 1F027; 1F066

414 of 788
TI: Integrated management systems with automatic data processing in the wood industries.
OT: Systemes integres de direction par des moyens de travail automatique des donnees, dans l'industrie du bois.
AU: Rimbu,-I; Invanescu,-D; Pop-Eleches,-I
AD: Dep. Ind. Bois, Bucarest, Romania.
SO: Proceedings of the Seventh World Forestry Congress, Centro Cultural General San Martin, Buenos Aires, Argentina, 4-18 October 1972. Vol. IV and V.: World Forestry Congress: Fourth technical commission: logging. Fifth technical commission: research. Sixth technical commission: economics, administration and planning. 1978., 5427-5431. Buenos Aires, Argentina; Instituto Forestal Nacional.
PY: 1978
LA: French
LS: English, Spanish
DE: computer-techniques; Rumania-; woodworking-; furniture-and-furniture-making
GE: Romania-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02231
UD: 9110
AN: F608333
DC: 1F0119; 1F0661; 1F0129
SM: BN/Int./7th WFC

415 of 788
TI: Solar drying for the furniture industry in Indonesia.
AU: Kosasi-Kadir
AD: For. Prod. Res. Inst., Bogor, Indonesia.
SO: Proceedings of the Eighth World Forestry Congress, Jakarta, 16-28 Oct. 1978.: World Forestry Congress: Forestry for industrial development. II. The forest industries. 1978., No. FID-II/21-10.
PY: 1978
LA: English
DE: seasoning-; solar-drying; furniture-and-furniture-making; Indonesia-; woodworking-
GE: Indonesia-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02473

UD: 9110
AN: F610764
DC: 1F0119; 1F045; 1F0661
SM: BN/Int./8th WFC

416 of 788
TI: Bamboo and rattan.
AU: Shipman,-J
AD: FIRA, Stevenage, Herts., UK.
SO: Bulletin,-FIRA. 1979., 19: 67, 6, 8; 2 pl. PR.
PY: 1979
LA: English
AB: A brief review is given of the use of bamboo, wicker and rattan for furniture. In the case of rattan, brief details are given of the raw material, storage, bending and shaping, furniture construction and finishing. Some rattan chair designs are illustrated.
DE: furniture-and-furniture-making; bamboos-; wood-properties-and-uses; canes-and-rattans
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02909
UD: 9110
AN: F612755
DC: 1F0661; 1F0934

417 of 788
TI: Automatic sorting and stacking of panels cut to size.
OT: Automatisches Sortierung und Stapeln aufgeteilter Platten.
AU: Ess,-W
AD: Schwarzach, German Federal Republic.
SO: Holz-als-Roh--und-Werkstoff. 1979., 37: 1, 17-19; PR.
PY: 1979
LA: German
LS: English
AB: The interdependence of the various manufacturing steps - cutting pattern, sorting and stacking - and the importance of sorting and stacking units in reaching optimum economy are described and discussed.
DE: furniture-and-furniture-making; panels-; manufacture-; stacking-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02762
UD: 9110
AN: F613657
DC: 1F044; 1F066

418 of 788
TI: Standardization and testing of furniture.
OT: Mobelnormung und Mobelprufung.
AU: Schubert,-R
AD: Wilhelm-Klauditz-Inst. fur Holzforschung an der TU

Braunschweig, German Federal Republic.
SO: Holz-als-Roh--und-Werkstoff. 1979., 37: 1, 1-7; 13 ref. PR.
PY: 1979
LA: German
LS: English
AB: The increasing demand for guarantees of quality in furniture has led to the necessity for standardization and testing. A classification and coding system is described which takes into account the various types and uses of furniture. The system includes concepts such as field of use, product group, testing of materials, surfaces and jointing methods, and the interactions between these. The system is illustrated in the example of testing a desk.
DE: furniture-and-furniture-making; standard-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02549
UD: 9110
AN: F613668
DC: 1F0115; 1F0661

419 of 788
TI: Requirements for an availability of forest products.
OT: Besoins et disponibilites en produits forestiers.
AU: Parisot,-P
AD: Centre Technique du Bois, 10 av. de Saint-Mande, 75012 Paris, France.
SO: Bulletin-d'Informations-Techniques,-Centre-Technique-du-Bois. 1980., No. 91, 39-52.
PY: 1980
LA: French
AB: A paper delivered at a symposium on the furniture industry in Poznan, Poland, in Nov. 1979, giving a detailed analysis of forest production, exploitation, sawmilling, wood-based panel and veneer manufacture in France. The French furniture industry uses 4 million m3/yr of roundwood equivalents, 16% of French wood consumption. The species used, including substitute species mainly imported from the tropics, and the quality required for different types of furniture are described. To increase supplies, there is still 30% of the French forest area, at present unproductive, which could be converted to useful stands of commercial species.
DE: France-; woodworking-; forest-industry; wood-supply-and-demand; furniture-and-furniture-making
GE: France-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02561
UD: 9110
AN: F613976
DC: 1F0214; 1F0661; 1F10

420 of 788
TI: Investigation of the possibilities of using Alnus incana in the manufacture of framed furniture in Latvia.

OT: Issledovanie vozmozhnostei primeneniya seroi ol'khi (Alnus incana Moench) v proizvodstve reshetchatoi mebeli v Latviiskoi SSR.
AU: Klugis,-E
AD: Latv. Sel'skokhoz. Akad., Latvian SSR.
SO: LLA-\Latvijas-Lauksaimniecibas-Akademija\-Raksti. 1978., No. 163, 57-61; 2 ref.
PY: 1978
LA: Russian
AB: Investigations are reported on the possibility of using alder wood for the manufacture of chairs. Data are shown in graphs on various wood properties, viz. strength in relation to length of specimen (of constant cross-section); MOE in relation to l (distance between supports); and MOE in bending in relation to l/h (where h is the ht. of the specimen). Most of the alder felled in Latvia is used as fuelwood at present, and it is thought that some of it could profitably be used for chair manufacture.
DE: Alnus-incana; wood-; strength-properties; furniture-; furniture-and-furniture-making; strength-of-wood; bending-
GE: Latvian-SSR
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-01893
UD: 9110
AN: F620356
DC: 1F0323; 1F0661
SM: BN/Latvia/Misc.

421 of 788
TI: Industrializing the manufacture of solid wood furniture.
OT: L'industrialisation de la fabrication du meuble massif.
AU: Laitre,-H-de
SO: Revue-du-Bois-et-de-ses-Applications. 1978., No. 4, 21-23; 2 pl. BLL.
PY: 1978
LA: French
AB: A report of a 2-yr study undertaken by the Centre Technique du Bois. The object is to introduce new methods of series production that will keep costs down without loss of quality. The typeof product is defined as having at least a frame in solid wood, although it may includeplywood or other wood-based panels.
DE: furniture-and-furniture-making
GE: France-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02060
UD: 9110
AN: F624591
DC: 1F066

422 of 788
TI: Double tenoners/crosscutters. 2. Double tenoners in furniture making.
OT: Les tronconneuses tenonneuses doubles. 2. Les tenonneuses doubles en menuiserie.

AU: Bonin,-D
SO: Revue-du-Bois-et-de-ses-Applications. 1978., 3, 43-47; BLL.
PY: 1978
LA: French
AB: [See FPA 2, 1573] A discussion of the various applications of machines of this type, their accessories, power requirements, etc.
DE: furniture-and-furniture-making; woodworking-; machines-; tools-; equipment-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02061
UD: 9110
AN: F624635
DC: 1F066; 1F0435

423 of 788
TI: Double tenoners/crosscutters: the installation of double tenoners in furniture factories.
OT: Les tronconneuses tenonneuses doubles. Implantation des tenonneuses doubles en menuiserie.
AU: Delage,-E
SO: Revue-du-Bois-et-de-ses-Applications. 1978., 4, 43-45; 3 pl.
PY: 1978
LA: French
AB: A discussion of floor space requirements and the positioning of tenoners in relation to other machinery.
DE: furniture-and-furniture-making; woodworking-; machines-; tools-; equipment-
GE: France-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02062
UD: 9110
AN: F624646
DC: 1F066; 1F0435

424 of 788
TI: Drying varnish by ultra-violet irradiation in the furniture industry.
OT: Le sechage des vernis par le rayonnement ultraviolet dans l'industrie du meuble.
AU: Baclet,-C
AD: CTB, 10 avenue de Saint-Mande, 75012 Paris, France.
SO: Bulletin-d'Informations-Techniques,-Centre-Technique-du-Bois. 1979., No. 90, 32-36; 1 pl. PR.
PY: 1979
LA: French
DE: finishes-and-finishing; furniture-and-furniture-making
GE: France-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02852
UD: 9110
AN: F625394
DC: 1F055

425 of 788
TI: Glued joints in furniture.
AU: Gower,-A
AD: FIRA, Stevenage, Herts, SG1 2EW, UK.
SO: Bulletin,-FIRA. 1978., 18: 63, 27-28.
PY: 1978
LA: English
AB: Gluing technique and m.c. of timber used in mortise and tenon joints and dowel joints are considered with reference to quantity of glue used and acceptable machining tolerances at the joints. Use of insufficient glue was the main cause of low strength or failure of these joints.
DE: furniture-and-furniture-making; joints-; glued-; dowelled-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03250
UD: 9110
AN: F625669
DC: 1F0433; 1F0661

426 of 788
TI: Technical requirements of furniture grade chipboard.
AU: Sparkes,-AJ
AD: FIRA, Stevenage, Herts SG1 2EW, UK.
SO: Bulletin,-FIRA. 1978., 18: 64, 1-4; PR.
PY: 1978
LA: English
AB: General guidance on performance levels for the relevant properties of different types of chipboard used in furniture is given with particular reference to basic strength, surface quality, machinability and thickness tolerance. Reference is made to BS 1811 for measurement of strength properties and to the FIRA 'profilometer' developed to measure panel smoothness.
DE: particleboard-; physical-and-mechanical-properties; uses-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03409
UD: 9110
AN: F625680
DC: 1F073; 1F0661

427 of 788
TI: Causes of staining defects and surface discoloration in furniture.
AU: Dombay,-S
AD: FIRA, Stevenage, Herts SG1 2EW, UK.
SO: Bulletin,-FIRA. 1978., 18: 64, 7-10.
PY: 1978
LA: English
AB: Five different phenomena of surface discoloration of furniture classified according to cause and circumstance of occurrence are considered in detail. Suggested ways of prevention and methods of

cure of several examples of each type of staining are listed.
DE: furniture-and-furniture-making; discoloration-in-wood
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03357
UD: 9110
AN: F625691
DC: 1F059; 1F0661

428 of 788
TI: The durability of surfaces and edges on educational furniture.
AU: Dombay,-S; Sparkes,-AJ
AD: FIRA, Stevenage, Herts SG1 2EW, UK.
SO: Bulletin,-FIRA. 1979., 19: 67, 16-17.
PY: 1979
LA: English
AB: Wood, plastic laminates, paper and vinyl foils and linoleum are discussed as surface materials used in schools and colleges with reference to durability, texture of surface, resistance to moisture, cost and various possible treatments of the surfaces. The durability of various edging and lipping treatments for these surfaces is considered.
DE: furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03384
UD: 9110
AN: F625702
DC: 1F0661

429 of 788
TI: Small machines for veneering edges.
OT: Des petites machines a plaquer les chants.
SO: Revue-du-Bois-et-de-ses-Applications. 1978., No. 4, 51; BLL.
PY: 1978
LA: French
AB: A brief description of 2 machines, the T-55 and T-50, manufactured by Brandt, [West] Germany, for applying veneer to pre-glued edges, and the same company's F-10 for sanding off the surplus veneer.
DE: veneering-; furniture-and-furniture-making
GE: France-; Germany-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03442
UD: 9110
AN: F625856
DC: 1F079; 1F066

430 of 788
TI: Staining wood for furniture.
AU: Dombay,-S
AD: FIRA, Stevenage, Herts SG1 2EW, UK.
SO: Bulletin,-FIRA. 1979., 19: 68, 27-28.

PY: 1979
LA: English
AB: Modern stains are classified and their composition outlined with reference to the main objectives in staining wood. The relative merits of different types of stains are discussed. Methods of application are outlined.
DE: furniture-and-furniture-making; staining-of-wood
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03385
UD: 9110
AN: F625933
DC: 1F0661

431 of 788
TI: Application of industrial design to the mass-production of furniture.
OT: Utilisation du dessin industriel dans la fabrication du meuble de serie.
CA: France, Centre Technique du Bois.
AD: CTB, 10 ave. Saint-Mande, 75012 Paris, France.
SO: Courrier-de-l'Industriel-du-Bois-et-de-l'Ameublement. 1979., No. 29 (1/79), 15 pp.; PR.
PY: 1979
LA: French
DE: furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03386
UD: 9110
AN: F627539
DC: 1F0661

432 of 788
TI: Quality wood for furniture - from where?
AU: Smith,-WR
AD: Forest Products Consultant, Franklin, NC, USA.
SO: USA, Forest Products Research Society: Impacts of the changing quality of timber resources. Proceedings of a joint meeting of the Economics & Financial Management and Timber Production Committees of the Forest Products Research Society at the 1978 Annual Meeting, June 28, 1978, Atlanta, Georgia. 1978?., 38-39. Madison, Wisconsin, USA.
PY: 1978
LA: English
AB: Although the availability of high-quality home-grown (USA) hardwoods is decreasing, it is believed that improvements in conversion methods and processing, and greater utilization of imported tropical hardwoods, will compensate for this.
DE: USA-; forest-industry; wood-supply-and-demand; furniture-and-furniture-making
GE: USA-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-02599

UD: 9110
AN: F629794
DC: 1F0217; 1F0661
SM: See USA, FPRS (1978) Impacts of the changing...

433 of 788
TI: Application of statistical methods for calculating acoustic fields in compartments for corrective acoustic design of working rooms based on the example of Goleniow furniture factory.
OT: Zustosowanie statystycznej metody obliczania pola akustycznego w pomieszczeniach do korekcyjnego projektowania akustycznego hal produkcyjnych na przykladzie goleniowskich fabryk mebli.
AU: Rybarczyk,-W
SO: Prace-Instytutu-Technologii-Drewna. 1976., 23: 1/4, 115-141; 18 ref. Tables and graphs have English captions. BLL.
PY: 1976
LA: Polish
LS: English, Russian
DE: Poland-; woodworking-; vibration/noise-; noise-and-its-control; furniture-and-furniture-making
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03045
UD: 9110
AN: F637461
DC: 1F027; 1F0661

434 of 788
TI: Panel products and their status of utilisation in furniture industry in India.
AU: Mehra,-ML
AD: For. Res. Inst., Dehra Dun, India.
SO: Journal-of-the-Timber-Development-Association-of-India. 1979., 25: 1, 47-52; PR.
PY: 1979
LA: English
AB: A brief general account, referring to plywood, blockboard, particleboard and fibreboard, and recommending promotion of the latter two on the Indian home market. There are at present no ISI standards for the use of hardboard in furniture.
DE: India-; panels-; furniture-and-furniture-making
GE: India-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03390
UD: 9110
AN: F640563
DC: 1F070

435 of 788
TI: Comparative investigations on the dimensional stability of non-veneered particleboards 18 and 16 mm thick.

AU: Rusanov,-Kh.; Kavalov,-A; Kyuchukov,-G
AD: Vissh Lesotekh. Inst., Sofia, Bulgaria.
S O :
Nauchni-Trudove,-Vissh-Lesotekhnicheski-Institut,-Sofiya-Mekhanic
hna-Tekhnologiya-na-D"rvesinata. 1979., 24: 96-100; 2 ref.
PY: 1979
LA: Bulgarian
LS: Russian, German
AB: An illustrated description is given of a test-rig for determining the dimensional stability of particleboards for use in furniture. Some results of tests are presented, and it is concluded that boards 16 mm thick are quite suitable for use in furniture, as well as boards 18 mm thick which are normally used.
DE: particleboard-; testing-; uses-; furniture-and-furniture-making; shrinkage-and-swelling-of-wood
GE: Bulgaria-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03632
UD: 9110
AN: F643335
DC: 1F073; 1F0321; 1F066
SM: BN/Bulgaria

436 of 788
TI: Investigation of the water absorption and swelling of three-layer particleboards 18 and 16 mm thick.
AU: Kavalov,-A; Kyuchukov,-G; Rusanov,-Kh.
AD: Vissh Lesotekh. Inst., Sofia, Bulgaria.
S O :
Nauchni-Trudove,-Vissh-Lesotekhnicheski-Institut,-Sofiya-Mekhanic
hna-Tekhnologiya-na-D"rvesinata. 1979., 24: 101-106; 2 ref.
PY: 1979
LA: Bulgarian
LS: Russian, German
AB: [See preceding abstract]. Similar tests were made on boards veneered with beech furniture-veneer. Veneering the boards reduced their water absorption by 5-10% and their swelling by 50-80%.
DE: particleboard-; testing-; uses-; furniture-and-furniture-making; shrinkage-and-swelling-of-wood; panels-; veneer/particle-boards
GE: Bulgaria-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1980 003-03633
UD: 9110
AN: F643346
DC: 1F073; 1F0321; 1F066
SM: BN/Bulgaria

437 of 788
TI: Oregon white oak utilization study in the state of Washington.
AU: Platz,-BJ
AD: Dep. Nat. Resour., Washington, USA.

SO: DNR-Report,-Department-of-Natural-Resources,-Washington. 1972., No. 21, ii + 25 pp.; 9 ref.
PY: 1972
LA: English
AB: Logs of Quercus garryana from near the northern limit of its range in Washington were cross-cut into 10-foot lengths, sawn into 11/4 and 11/2 inch boards and kiln dried from green wood to 8-10% m.c. The av. down-grade of all grades was 32.7% and 12% for 11/4 and 11/2 inch lumber, respectively. Grade recovery was better in a separate experiment in which the lumber was first air-dried to 15% m.c. Selected samples were tested by a ladder-manufacturing company. Only 50% of the select grade samples were suitable rung material; the main defect was cross grain, most of which could be eliminated by better sawing. Material that was air-seasoned prior to kiln drying had a lower test failure point, owing to incorrect air seasoning. Lumber selling prices were calculated and potential markets were identified. It is concluded that there is potential for the commercial use of Q. garryana for ladder rungs, furniture stock and pallet stock.
DE: Quercus-garryana; grading-and-sorting; roundwood-; seasoning-; degrade/loss-; kiln-operation-and-schedules; air-drying; furniture-and-furniture-making; pallets-; ladders-; USA-; Washington-; timbers-; grading-; wood-
GE: USA:-Washington
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-00095
UD: 9110
AN: F47651X
DC: 1F046; 1F045
SM: BN/USA/Washington

438 of 788
TI: Sell end-products, not lumber.
AU: Fraser,-HR
SO: World-Wood. 1978., 19: 7, 16-17; 2 pl.
PY: 1978
LA: English
AB: A brief account of the activities and equipment of Pacific Lumber Products Pty., Ltd. which started production in 1976 at Lae, Papua New Guinea, concentrating on lumber finishing. Components of furniture and joinery, decking etc. are exported, mainly to Europe where New Guinea oaks (Castanopsis and Lithocarpus spp.) are substituted for European oak. Business has grown rapidly despite a slump, showing that little-known local species are readily accepted as finished goods.
DE: Castanopsis-spp.; Lithocarpus-spp.; Papua-New-Guinea; timber-trade; timbers-; finishes-and-finishing; furniture-and-furniture-making; joinery-; marketing-information
GE: Papua-New-Guinea
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-00193
UD: 9110
AN: F477136

DC: 1F10; 1F0434
SM: P

439 of 788
TI: Process for manufacture of medium density fibreboards.
OT: Verfahren zur Herstellung vor Faserplatten mittlerer Dichte - MdF.
AU: Kehr,-E
SO: Holztechnologie. 1977., 18: 2, 67-76; 42 ref. PR.
PY: 1977
LA: German
LS: English, Russian
AB: Medium density fibreboards are multilayer boards, produced for furniture manufacture, having a density of 650-850 kg/m3, thickness 10-19 mm, and 8-10% resin content. The boards are produced from a mixture of softwood and hardwood using defibrators to disintegrate the wood. The complete manufacturing process is described in detail and is compared with American processes. The relation of the properties of the boards to processing variables was investigated. Importance is attached to surface quality and thickness swelling.
DE: fibreboard-; manufacture-; physical-and-mechanical-properties; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-00138
UD: 9110
AN: F478610
DC: 1F074

440 of 788
TI: Solar kiln for timber seasoning.
AU: Ooi-Seng-Hock
AD: Indust. Studies and Survey Unit. Federal Industrial Development Authority, Malaya.
SO: Timber-Trade-Review. 1978., 7: 1, 29-32; TRADA.
PY: 1978
LA: English
AB: The design and operation of a solar kiln in a furniture factory [in Malaysia?] are described. In spite of its poor position and defects in installation, it gave useful results in pre-drying light red meranti [Shorea spp.] to 11-16% m.c. depending on position in the kiln and increased the capacity of the dehumidifier kiln by 25-35%.
DE: Shorea-spp.; seasoning-; solar-drying; kiln-operation-and-schedules; Malaya-; furniture-and-furniture-making
GE: Malaya-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-00287
UD: 9110
AN: F483626
DC: 1F045

441 of 788
TI: Some considerations on bonding of wood-based materials with structural polyurethane foam.
OT: Einige Betrachtungen zur Verbindung von Holzwerkstoffen mit Polyurethan-Strukturschaum.
AU: Seltmann,-J; Kopia,-F
SO: Holztechnologie. 1977., 18: 3, 145-148; 7 ref.
PY: 1977
LA: German
LS: English, Russian
AB: The use of structural foam in production of corner joints for furniture using particle board was investigated. The strength of joints depended on the type of construction used. Failure occurred at the foam-particle board interface and was associated with a region of low density in the foam.
DE: particleboard-; joints-; uses-; glued-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-00343
UD: 9110
AN: F485056
DC: 1F073; 1F0433; 1F075

442 of 788
TI: Investigation on the position of the main saw tool in cutting to size of coated furniture components.
OT: Untersuchung zur Stellung des Hauptsagewerkzeuges bei der Formatbearbeitung beschichteter Mobelteile.
AU: Troger,-J; Lauter,-G; Kroppelin,-D
SO: Holztechnologie. 1977., 18: 4, 212-215; 3 ref.
PY: 1977
LA: German
LS: English, Russian
AB: A comparison of the cutting of particleboard (coated with a pigmented foil) by means of a circular saw placed either tangentially or radially showed that the radial position of the saw resulted in less wear on the tool, but lower quality of the surface, than did the tangential position. It is concluded that the tangential position is more economic.
DE: furniture-and-furniture-making; particleboard-; surface-overlays; saws/sawing-studies; fundamental-cutting-studies; circular-saws
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-00321
UD: 9110
AN: F486156
DC: 1F066; 1F075; 1F0435

443 of 788
TI: British woodworking machines on show at 'Louisville' [USA].
SO: Timber-Trades-Journal. 1978., 306: 5322, 42.

PY: 1978
LA: English
AB: Machines (briefly described) from 15 British companies, were exhibited at the International Woodworking Machinery and Furniture Supply Fair, Sept. 16-20.
DE: Great-Britain; woodworking-; machines-; tools-; equipment-; furniture-and-furniture-making
GE: UK-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-00472
UD: 9110
AN: F487498
DC: 1F0435

444 of 788
TI: Bending strengths of hardwood used in upholstered furniture frame construction.
AU: Eckelman,-CA
AD: Dep. For. and Natural Resour., Purdue Univ., W. Lafayette, Ind., USA.
SO: Forest-Products-Journal. 1978., 28: 8, 34-37; 8 ref.
PY: 1978
LA: English
AB: Bending strength was evaluated for 1104 wood parts salvaged from upholstered furniture frames; 24 species were involved. MOR averaged 90.5% of values for clear specimens given in the Wood Handbook [see FA 36, 2938]. Calculation of tolerance limits from the results provided support for establishing a third-of-MOR of clear wood convention for wood used in upholsteredfurniture.
DE: furniture-and-furniture-making; strength-of-wood; bending-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-00514
UD: 9110
AN: F487509
DC: 1F0661; 1F0323
SM: P

445 of 788
TI: Use of computer simulation in designing and evaluating a proposed rough mill for furniture interior parts.
AU: Araman,-PA
AD: For. Prod. Marketing Lab., Princeton, W. Virginia, USA.
SO: USDA-Forest-Service-Research-Paper,-Northeastern-Forest-Experiment-Station. 1977., No. NE-361, 9 pp.; 7 ref.
PY: 1977
LA: English
AB: The design of a rough mill is used to illustrate a simulation technique for selecting the optimum lay-out and design of sequential production systems. Desired output of the mill was determined and combinations of different lumber characteristics, feed speeds and delay times were modelled for each sequence of

operation within the system.
DE: furniture-and-furniture-making
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-00513
UD: 9110
AN: F487553
DC: 1F066; 1F0129
SM: BN/USA

446 of 788
TI: Practical application of solar energy to wood processing. Workshop Proceedings, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, January 6-7, 1977.
AU: Thomas,-WC; Moseley,-TD; Moseley,-TE; Klamecki,-BE; Johnson,-JA; Skaar,-C; Wengert,-EM; Little,-RL; Troxell,-HE; Simpson,-WT; Tschernitz,-JL; Cuppett,-DG; McCormick,-PO; Robertson,-SJ; Vaughan,-DH; White,-MS; Steinhagen,-HP; Wampler,-WC
CA: USA, Forest Products Research Society.
AD: FPRS, 2801 Marshall Court, Madison, Wis. 53705, USA.
SO: 1977, 84 pp. Madison, Wisconsin, USA; Forest Products Research Society.
PY: 1977
LA: English
AB: Session I - the basicsThomas, W.C. Introduction to solar energy application for wood processing. [3 ref.]Moseley, T.D.; Moseley, T.E. Experience with solar collector designs, operations, and maintenance. [5 ref., 2 pl.]Klamecki, B.E. Optimization of solar energy usage in the forest products industry. [9 ref.] Data on energy requirements and costs.Session II - dryingJohnson, J.A. The removal of water from wood. - A review; further information sources [4 ref.] are listedSkaar, C. Energy requirements for drying lumber. [5 ref.]Wengert, E.M. The application of solar energy to air drying. [8 ref.]Little, R.L. Design and performance of foreign solar lumber dryers. [21 ref.] A review of the literature covering kilns from India, Puerto Rico, the Philippines, Uganda and Australia and citing research studies in 5 other countries.Troxell, H.E. An application of solar energy for drying lumber in the Central Rocky Mountain region. [18 ref., 1 pl.]Simpson, W.T.; Tschernitz, J.L. Solar lumber dryer designs for developing countries. [5 ref., 1 pl.] Proposed designs for testing in the Philippines.Cuppett, D.G. Use of solar energy in drying lumber. [8 ref.] Summary of available technology for construction and use of solar kilns and low temp. dryers.McCormick, P.O.; Robertson, S.J. Solar industrial process heat for kiln drying lumber. [6 ref.] Design and costing of a new system.Session III - space heatingWengert, E.M. Solar heating of dry lumber storage areas. [3 ref.]Vaughan, D.H. Solar energy for comfort heating in sawmills and furniture plants. [8 ref.]Session IV - other usesWhite, M.S. Solar drying of hogged wood and bark fuels. [8 ref.] An evaluation of this process using 3 experimental air drying piles.Steinhagen, H.P. Note on energy requirements for heating veneer logs. [5 ref.]Wampler, W.C. The energy crisis and the forestry industry.Wengert, E.; Simpson, W. Bibliography on solar drying of

lumber. [32 ref.]
DE: conferences-; symposia-; seasoning-; energy-resources; radiation-; solar-; forest-industry; fuel-and-power; solar-drying; kiln-types-and-construction; air-drying; bibliography-; Developing-countries; sawmilling-; furniture-and-furniture-making; bark-; uses-and-products
GE: USA-
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-00481
UD: 9110
AN: F490534
DC: 1F045; 1F0119
SM: BN/USA/For. Prod.Res.Soc./Misc.

447 of 788
TI: 'Sky-supporting tree' - king of trees in China.
AU: Liu-Fan
AD: China Features, PO Box 522, Peking, China.
SO: Vanasarn. 1978., 36: 2, 217; 1 pl.
PY: 1978
LA: English
AB: A brief account of Parashorea chinensis, recently discovered in Kwangsi, S. China. Its max. recorded ht. is 65 m (av. 50 m), and max stem diam. 2.5 m. Its wood is hard, straight-grained, even-textured and workable, and is suitable for making furniture, musical instruments and sports equipment, and for finishing vehicles and ships. P. chinensis is now being planted on mountain slopes.
DE: Parashorea-chinensis; China-; Kwangsi-; trees-and-shrubs; timbers-; wood-; physical-and-mechanical-properties; individual-species; furniture-and-furniture-making; musical-instruments; sports-equipment; boats-and-ships
GE: China-; Kwangsi-
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1979 040-01371
UD: 9110
AN: F490600
DC: ODC071; 1F030
SM: P

448 of 788
TI: Common mechanical processes involved in furniture-making.
AU: Monzon,-NS; Moscoso,-VP
AD: For. Prod. Ind. Devel. Div., Forpridecom, NSDB, Coll., Laguna 3720, Philippines.
SO: FORPRIDECOM-Technical-Note,-Philippines. 1978., No. 185, 2 pp.; 8 ref.
PY: 1978
LA: English
DE: furniture-and-furniture-making; Philippines-; woodworking-
GE: Philippines-
PT: Numbered-Whole

CAB: 1F Forest-Products-Abstracts 1979 002-00515
UD: 9110
AN: F492437
DC: 1F0661
SM: BN/Philippines

449 of 788
TI: Wood usage trends in the furniture and fixtures industry.
AU: Spelter,-H; Stone,-RN; McKeever,-DB
AD: For. Prod. Lab., USDA For. Serv., Madison, Wis. 53795, USA.
S O :
USDA-Forest-Service-Research-Note,-Forest-Products-Laboratory,-Madison. 1978., No. FPL-0239, 12 pp.; 6 ref. PR.
PY: 1978
LA: English
AB: Wood consumption statistics from the 1972 Census of Manufacturers were used to supplement previous Forest Service surveys, and estimates were made for 1977 consumption. Despite higher prices wood products did not lose their share in the market within the furniture and fixtures industry, during the period 1960-1972.
DE: furniture-and-furniture-making; prices-of-forest-products; forest-industry; statistics-; USA-; woodworking-
GE: USA-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-00679
UD: 9110
AN: F492481
DC: 1F066; 1F10

450 of 788
TI: The market for beech wood in Switzerland.
OT: Der Buchenholzmarkt in der Schweiz.
AU: Tromp,-H
AD: Inst. f. forstl. Betriebswirtschaftslehre, ETH, Zurich, Switzerland.
S O :
SAH-\Schweizerische-Arbeitsgemeinschaft-fur-Holzforschung\-Bulletin. 1978., 6: 2, 1-31; 15 ref. TRADA.
PY: 1978
LA: German
AB: Data are presented on the use of beech [Fagus sylvatica] in Switzerland and on exports and imports in 1970-77. Changes in the pattern of use between 1959 and 1971 are outlined. Selected applications are discussed; the most important are railway sleepers and furniture. The prices of beech assortments in 1969-77 are compared with those of softwoods. Possible measures for encouraging the use of beech are discussed.
DE: Fagus-sylvatica; wood-; properties-and-uses; Switzerland-; timber-trade; furniture-and-furniture-making; sleepers-; prices-of-forest-products; marketing-information
GE: Switzerland-

PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-00726
UD: 9110
AN: F493262
DC: 1F10

451 of 788
TI: Hard maple bolt grades and furniture component yields.
AU: Capstick,-DE; Pnevmaticos,-SM
AD: Eastern For. Prod. Lab., Ottawa, Ont., Can.
SO: Report,-Eastern-Forest-Products-Laboratory,-Canada. 1977., No. OPX193E, iv + 16 pp.; 7 ref. PR.
PY: 1977
LA: English
LS: French
AB: A grading system was developed and tested for segregating 2.44 m hard maple (Acer saccharum) bolts into classes according to their value as furniture components. Results showed that the higher grade bolts were suitable for conversion into furniture flat stock, while the lower grade bolts might be used for pallet boards, mine packing pieces, or pallet stringers.
DE: Acer-saccharum; wood-; grading-; properties-and-uses; furniture-and-furniture-making; Canada-; grading-and-sorting; sawn-timber; pallets-; mine-timbers
GE: Canada-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-00647
UD: 9110
AN: F494417
DC: 1F046; 1F0661

452 of 788
TI: Properties and utilization of wood of European larch.
AU: Sindelar,-J
SO: Studijni-Informace-Lesnictvi. 1977., No. 1, 80 pp.; 198 ref.
PY: 1977
LA: Czech
LS: Russian, English
AB: A review of the characteristics of European larch [Larix decidua] especially its 'Sudetan' variety [L. decidua var. polonica] with comparative physical and mechanical properties for Siberian [L. sibirica], Dahurian [L. gmelinii] and Japanese larch [L. leptolepis]. L. decidua is being planted on pollution-affected sites in central Europe, is relatively fast growing, its wood has good physical and mechanical properties and is suitable for furniture manufacture and pulping; the 'Sudetan' variety is slightly better than other varieties.
DE: Larix-decidua; wood-; properties-and-uses; Larix-decidua-polonica; Larix-sibirica; Larix-gmelinii; Larix-leptolepis; pulping-materials; Larix-; furniture-and-furniture-making
PT: Numbered-Whole

CI: Abstract Bulletin of the Institute of Paper Chemistry 48, 8510.IPC.
CAB: 1F Forest-Products-Abstracts 1979 002-00761
UD: 9110
AN: F495550
DC: 1F032; 1F081; 1F0661

453 of 788
TI: Short-log processing - 1977.
AU: Flann,-IB
AD: Eastern For. Prod. Lab., Ottawa, K1G 3Z5, Ont., Canada.
SO: Report,-Eastern-Forest-Products-Laboratory,-Canada. 1978., No. OPX207E, iii + 12 pp.; 6 pl. PR.
PY: 1978
LA: English
LS: French
AB: Due mainly to the increase in the number of vertically integrated furniture companies owning their own sawmills, short-log processing is increasing. Equipment used for processing includes short-log bolters, short-log conventional carriages and overhead carriages, with various combinations of circular and band saws. Several studies of short-log processing operations showed that bolt diam. affected productivity in terms of value and volume, and yellow birch [Betula alleghaniensis] and beech [Fagus grandifolia] gave better value per unit vol. and per min of sawing time than hard maple [Acer saccharum].
DE: Betula-alleghaniensis; wood-; sawmilling-; furniture-; Fagus-grandifolia; Acer-saccharum; furniture-and-furniture-making; effect-of-log-size; equipment-; saws/sawing-studies; circular-saws; band-saws
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-00818
UD: 9110
AN: F49719X
DC: 1F0431; 1F0661

454 of 788
TI: Some problems of mordanting of wood.
OT: Nektere problemy moreni dreva.
AU: Truc,-R
AD: Jitona, narodni podnik, Sobeslav, Czechoslovakia.
SO: Drevo. 1978., 33: 1, 11-12; PR.
PY: 1978
LA: Czech
LS: Russian, German, English
AB: A discussion of practical experience of the application of water-soluble and organic mordants (as a pretreatment to decorative staining of wood surfaces), dealing with: the purpose of mordanting; conditions for success; uniformity of colour tone; drying furniture elements after mordanting; and types of mordants. From synopsis.
DE: furniture-and-furniture-making; preservation-; wood-etc.;

pre-treatment; staining-of-wood
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-00841
UD: 9110
AN: F497937
DC: 1F055; 1F066

455 of 788
TI: An analysis of the influence on consumption and utilization of wood products due to their substitutes in Taiwan.
AU: Jen,-IA
AD: Taiwan For. Res. Inst., Taipei, Taiwan.
SO: Bulletin-of-Taiwan-Forestry-Research-Institute. 1975., No. 272, 15 pp.; 4 ref.
PY: 1975
LA: Chinese
LS: English
AB: Data for 1952-63 show that the number of wooden buildings constructed in Taiwan decreased relative to the number of reinforced concrete and brick buildings constructed. It is predicted that reinforced concrete power-line poles will be used twice as frequently as wooden poles, which cost 25% more. Purchases of low quality wooden furniture decreased with increasing income, while purchases of high quality wooden furniture increased. It is concluded that future forest management plans in Taiwan should aim to increase the production of high quality timber for furniture and interior decoration.
DE: Taiwan-; forest-industry; management-; forest-; buildings-; timber-; wood-; rational-economic-use; vs.-other-materials; poles-; materials-; furniture-and-furniture-making; wood-supply-and-demand
GE: Taiwan-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-00896
UD: 9110
AN: F498179
DC: 1F10
SM: BN/China

456 of 788
TI: Trials to prevent the development of roughening of the surface of particleboards in furniture parts.
OT: Badania mozliwosci wyeliminowania zjawiska zwiekszania nierownosci powierzchni plyt wiorowych w elementach meblowych.
AU: Grzeczynski,-T; Blaszka,-D; Paprzycki,-O
AD: Inst. Tworzyw Drzew., Akad. Roln., 60-637 Poznan, Poland.
SO: Prace-Komisji-Technologii-Drewna. 1978., 7: 57-67; 14 ref. PR.
PY: 1978
LA: Polish
LS: German
AB: [See also FA 29, 4785] The problem of pebbling or 'orange-peel' marking on the surface of boards with decorative surface laminates is due to swelling of some of the particles on the outside of the

board. A pre-finishing treatment was tried in which the surface of the board was wetted, steamed, dried and sanded smooth. This treatment prevented pebbling in 50% of cases without affecting the bending strength.
DE: particleboard-; finishes-; physical-and-mechanical-properties; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01083
UD: 9110
AN: F502414
DC: 1F073

457 of 788
TI: Fidor conference report.
AU: Parkins,-IG; Raynham,-EA; Nice,-GR; Heughan,-DM; Fordham,-BG
CA: UK, Fibre Building Board Development Organization.
SO: Timber-Trades-Journal. 1978., Suppl. 24 June, 33 pp.
PY: 1978
LA: English
AB: Thirteen articles are presented including:Parkins, I.G. Technical development. [2 pl.] Medium density board cladding, bitumen impregnated insulating board, tempered hardboard, and hardboard in packing cases are among the developments described.Raynham, E.A. Market development in1979. [1 pl.]Nice, G.R. Fire tests and fire hazard.Heughan, D.M. What the furniture industry requires. [1 pl.]Fordham, B.G. Timber-frame building.
DE: Great-Britain; conferences-; symposia-; fibreboard-; marketing-; fibreboard/particleboard-; timber-trade; marketing-information; furniture-and-furniture-making; fire-resistance-of-materials; industry-; buildings-; materials-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-01458
UD: 9110
AN: F505230
DC: 1F074; 1F054; 1F10; 1F0661; 1F063; 1F0119

458 of 788
TI: Use of hard and semi-hard woods in the construction of houses and furniture.
OT: Uso de maderas duras y semiduras en la construccion de viviendas y mobiliario.
AU: Moure,-O
AD: Direccion General de Bosques, Caza y Pesca, Santiago del Estero, Argentina.
SO: Serie-Tecnologia,-Direccion-de-Bosques,-Argentina. 1978., No. 1, 15 pp.; 6 pl.
PY: 1978
LA: Spanish
AB: A booklet containing short, illustrated notes on the physical and mechanical properties, and uses for furniture-making etc., of two woods characteristic of Cliaqueno Seco national park, viz. Schinopsis lorentzii (quebracho colorado) and Aspidosperma sp.

(quebracho blanco).
DE: Schinopsis-lorentzii; Aspidosperma-spp.; Argentina-; timbers-; wood-; general-information-on-timbers; furniture-and-furniture-making; buildings-; materials-
GE: Argentina-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-01439
UD: 9110
AN: F505384
DC: 1F063; 1F0661
SM: BN/Argentina/Misc.

459 of 788
TI: Education for our industries.
CA: UK, Furniture and Timber Industry Training Board.
SO: 1978, 35 pp.; TRADA. High Wycombe, Bucks, UK.
PY: 1978
LA: English
AB: This report describes existing training in the UK and offers some recommendations for improvement. Department of Education and Science statistics are presented for examination entries and passes. Results are given of 2 surveys on attitudes and recruitment practices of a random sample of firms, and opinions of school leavers and young people in their first yr of employment.
DE: education-and-training; Great-Britain; furniture-and-furniture-making
GE: UK-
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1979 002-01137
UD: 9110
AN: F507683
DC: 1F025; 1F066

460 of 788
TI: The behaviour of horizontal loaded furniture construction materials in creep tests.
OT: Das Verhatten von Waagerechten tragenden Mobelbaugruppen bei Dauerstandbelastung.
AU: Bachmann,-G; Hassler,-W
SO: Holztechnologie. 1978., 19: 1, 44-48; 15 ref. PR.
PY: 1978
LA: German
LS: English, Russian
AB: The bending of furniture members under a uniformly distributed load was measured over periods up to 140 days. Creep factors were calculated. Differences were found between boards of different construction and manufacture. Relations were found between creep factor, MOE, and bending strength. The data are applicable to the use of board materials for shelving.
DE: strength-of-wood; bending-; plasticity-; creep-; elasticity-; panels-; physical-and-mechanical-properties; furniture-and-furniture-making

PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01177
UD: 9110
AN: F50775X
DC: 1F0323; 1F066

461 of 788
TI: Dimensioning of coated furniture components by milling with minimum-maintenance tools.
OT: Format bearbeitung beschichteter Mobelbau teile durch Frasen mit instandhaltungsgerechten Werkzeugen.
AU: Troger,-J
SO: Holztechnologie. 1978., 19: 1, 25-33; 4 ref. PR.
PY: 1978
LA: German
LS: English, Russian
AB: Describes machines which aim at operating with a high effective feed speed and short shut-down time for change of tools, and which reduce processing costs by reduction of the specific tool costs.
DE: woodworking-; machines-; tools-; equipment-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01232
UD: 9110
AN: F507760
DC: 1F0434; 1F066

462 of 788
TI: Investigations on the behaviour under load of corner joints made with dowels.
OT: Untersuchungen zum Beanspruchsverhalten von Eckverbindungen durch Dubel.
AU: Kuhne,-G; Kroppelin,-U
SO: Holztechnologie. 1978., 19: 2, 95-99; 14 ref. PR.
PY: 1978
LA: German
LS: English, Russian
AB: The behaviour under load of carcass furniture, the components of which are joined with dowels, is analysed mathematically on the basis of a model. The effects of the number of dowels and other factors concerning the insertion of the dowels on the deformation of the construction are considered. The programme of calculations permits many material and construction parameters to be taken into consideration.
DE: furniture-and-furniture-making; joints-; dowelled-; strength-testing; systems-analysis-and-simulation; joints-and-jointed-assemblies
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01444
UD: 9110
AN: F517990
DC: 1F0661; 1F0129; 1F0433

463 of 788
TI: Theory of deformations of cabinet constructions.
OT: Theorie der Verformungen von Schrankkonstruktionen.
AU: Ganowicz,-R; Dziuba,-T; Ozarska-Bergandy,-B
SO: Holztechnologie. 1978., 19: 2, 100-107; 4 ref. PR.
PY: 1978
LA: German
LS: English, Russian
AB: The loading of a cabinet supported at the four corners represents a strength testing of the carcass joints and, in some cases, testing of the shear strength of the panels. Theoretical investigations are described which enable the stiffness of carcass furniture to be calculated, thereby contributing to design.
DE: furniture-and-furniture-making; strength-testing; joints-and-jointed-assemblies
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01445
UD: 9110
AN: F518023
DC: 1F0661; 1F0323

464 of 788
TI: Influence of some factors on the effectiveness of dimensioning coated furniture components by milling.
OT: Zur Wirkung einiger Einflussgrossen auf die Effektivitat der Formatbearbeitung beschichteter Mobelbauteile durch Frasen.
AU: Troger,-J
SO: Holztechnologie. 1978., 19: 2, 84-91; 11 ref. PR.
PY: 1978
LA: German
LS: English, Russian
AB: A theory is derived for determining the length of feed path between tool changes, the limiting factor being breaking away at the edges. The effects of a number of variables on the feed path are considered, and the theory is supported by the results of tests using a special test rig that approximates to the chipping process.
DE: woodworking-; fundamental-cutting-studies; machines-; tools-; equipment-; furniture-and-furniture-making; finishes-and-finishing
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01566
UD: 9110
AN: F519772
DC: 1F0434; 1F075; 1F0661

465 of 788
TI: For big production work - a new Bauwerk fittings inserter.
SO: Timber-Trades-Journal. 1978., 307: 5330, 46; 1 pl.
PY: 1978
LA: English
AB: The LM-1, manufactured by Bauwerk, is claimed to insert strip-type handles in doors and drawers (200 mm to 1800 mm long) at

a speed of 25 pieces/min. In one UK mill, capital investment was said to be recovered in 7 months by savings in labour costs.
DE: furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01617
UD: 9110
AN: F520531
DC: 1F066

466 of 788
TI: The effect of veneers and finishings used in cabinet making on the flammability of fire-proofed panels.
OT: Comportement des placages de bois d'ebenisterie colles sur panneaux ignifuges et leurs finitions avec le maintien du classement initial de reaction au feu des panneaux.
AU: Corne,-M; Descos,-J; Lucante,-C; Roth-Meyer,-M
AD: Centre Tech. du Bois, 10 Ave. de St.-Mande, 75012 Paris, France.
SO: Courrier-de-l'Industriel-du-Bois-et-de-l'Ameublement. 1978., No.2/78, III, 14 pp.; PR.
PY: 1978
LA: French
AB: An investigation measuring the effect on the properties (inflammability, flame development, length of flame, and combustibility) and fire classification of fire-proofed particleboard, of veneering with: (a) oak [Quercus robur], ash [Fraxinus excelsior], walnut [Juglans regia], pine [Pinus sylvestris], makore [Tieghemella heckelii], teak [Tectona grandis], and sapele [Entandrophragma cylindricum]; and (b) oak and sapele veneers coated with 15 types of varnish. It is concluded that the veneers slightly reduced the fire resistance of the panels, but this reduction could be avoided by using a chlorinated rubber varnish.
DE: Tieghemella-heckelii; Entandrophragma-cylindricum; Fraxinus-excelsior; wood-; veneer-; fire-resistance; Juglans-regia; Pinus-sylvestris; Quercus-robur; finishing-; Tectona-grandis; particleboard-; surface-overlays; finishes-; fireproofing-of-wood-etc.; coatings-; overlays-; veneering-; fire-resistance-of-materials; finishes-and-finishing; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01598
UD: 9110
AN: F52095X
DC: 1F054; 1F075; 1F073; 1F0661; 1F055

467 of 788
TI: Rubber wood.
AU: Jalaludin,-R
SO: Timber-Trade-Review. 1978., 7: 2, 32-35.
PY: 1978
LA: English

AB: A review of possible uses for rubber [Hevea brasiliensis] timber in peninsular Malaysia, including the manufacture of parquet, furniture and, most promisingly, chipboard.
DE: Hevea-brasiliensis; wood-; general-information-on-timbers; particleboard-; raw-materials; floors-; furniture-and-furniture-making; Malaya-; Hevea-
GE: Malaya-
PT: Numbered-Part
CI: Abstracts on Tropical Agriculture 4, 23053. X.
CAB: 1F Forest-Products-Abstracts 1979 002-01717
UD: 9110
AN: F525019
DC: 1F030; 1F073
SM: X = EMB

468 of 788
TI: The development of furniture test methods and materials - some implications related to product design.
AU: Spillard,-AD
AD: Furniture Ind. Res. Ass., Stevenage, Herts., UK.
SO: 10 pp.
LA: English
DE: furniture-and-furniture-making
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01815
UD: 9110
AN: F525206
DC: 1F0661; 1F0125
SM: See UK, Inst. Purch. & Supply (1978)

469 of 788
TI: The production of chairs and other timber components.
AU: Speranza,-A
SO: Wood-and-Machines. 1979., 2: 9, 10-15; TRADA.
PY: 1979
LA: English
AB: Details are given of the materials and processes used, and a list is included of the equipment which a firm would require, employing about 50 workers.
DE: furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-01814
UD: 9110
AN: F526504
DC: 1F066

470 of 788
TI: Withdrawal strength of dowel joints: effect of shear strength.
AU: Eckelman,-CA
AD: Dep. For. & Natural Resour., Purdue Univ., W. Lafayette, Ind., USA.

SO: Forest-Products-Journal. 1979., 29: 1, 48-52; 5 ref., 1 pl.
PY: 1979
LA: English
AB: Withdrawal strength was measured for sugar maple [Acer saccharum] dowels in 15 species of wood typically used in furniture. A predicted value was also obtained from a formula which relates withdrawal strength to dowel diam; depth of embedment; shear strength parallel to the grain of the material in which the dowel was embedded; shear strength parallel to the grain of the dowel; adhesive factor; and dowel-hole clearance factor. Test results differed from predicted values by less than 7%, except in the case of sweetgum [Liquidambar styraciflua] which had a measured value of 15% greater than predicted.
DE: Acer-macrophyllum; Acer-nigrum; Acer-saccharum; wood-; joinery-; strength-properties; Alnus-rubra; Celtis-occidentalis; Fagus-grandifolia; Fraxinus-americana; Juglans-cinerea; Juglans-nigra; Liquidambar-styraciflua; Liriodendron-tulipifera; Platanus-occidentalis; Prunus-serotina; Quercus-alba; Quercus-rubra; Tilia-spp.; strength-of-wood; shear-; theory-; furniture-and-furniture-making; joints-; dowelled-; strength-testing; joints-and-jointed-assemblies
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-02160
UD: 9110
AN: F528011
DC: 1F0323; 1F0433; 1F066
SM: P

471 of 788
TI: Reconstituted wood processing.
AU: McMillin,-CW (Editor)
AD: S FES, USDA For. Serv., Pineville, La., USA.
SO: Complete tree utilization of southern pine. Proceedings of a symposium, New Orleans, Louisiana, April, 1978. 1978., 399-484. Madison, Wisconsin, USA; Forest Products Research Society.
PY: 1978
LA: English
AB: Ten papers are presented:
DE: conferences-; symposia-; fibreboard/particleboard-; waste-utilization; laminated-wood; manufacture-; plywood-; fibreboard-; uses-; furniture-and-furniture-making; particleboard-; beams-; bark-; uses-and-products; panels-; veneer/particle-boards
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-02037
UD: 9110
AN: F533731
DC: 1F070; 1F0119
SM: U.634.0.3

472 of 788
TI: Markets and applications of medium density fibreboard.
AU: Suchsland,-OM

AD: Sch. For., Michigan State Univ., East Lansing, Mich., USA.
SO: Complete tree utilization of southern pine. Proceedings of a symposium, New Orleans, Louisiana, April, 1978.: McMillin, C. W. (Editor): Reconstituted wood processing. 1978., 473-481; 3 ref., 4 pl. Madison, Wisconsin, USA; Forest Products Research Society.
PY: 1978
LA: English
AB: The use of medium density fibreboard in the furniture industry is discussed. Its superior edge quality, which allows direct machining and finishing, its homogeneity, and its broad raw material basis should allow expansion into the US structural board market.
DE: fibreboard-; uses-; physical-and-mechanical-properties; furniture-and-furniture-making
GE: USA-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-02046
UD: 9110
AN: F53382X
DC: 1F070; 1F074; 1F0661
SM: See McMillin, C. W. (1978)

473 of 788
TI: Optimum breakdown of dry boards into clean scantling for furniture dimension stock.
OT: Ob optimal'nom raskroe sykhikh dosok na chistovye bruskovye mebel'nye zagotovki.
AU: Bilov,-ES; Feller,-MN
AD: UkrNIIMOD, USSR.
SO: Lesnoi-Zhurnal. 1978., No. 3, 159-161; 4 ref.
PY: 1978
LA: Russian
AB: A mathematical model is developed for selecting the optimum breakdown method. An eight-stage functional scheme is described for the practical breakdown of boards.
DE: furniture-and-furniture-making; sawmilling-; log-breakdown-methods
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-02034
UD: 9110
AN: F537625
DC: 1F0661; 1F0431

474 of 788
TI: Formulation and industrial application of synthetic resin and special adhesives used in the joinery and furniture industries and other specialised wooden products.
AU: Straeten,-EJ-van-der; Mynott,-TI
AD: CIBA-Geigy Plastics & Additives Co., Cambridge, UK.
SO: United Nations Industrial Development Organization: Adhesives used in the wood processing industries: Report of a workshop,

Vienna, Austria, 31 October-4 November 1977. \UNIDO-Report\. 1977., No. ID/WG.248/4.
PY: 1977
LA: English
DE: glues-and-gluing; synthetic-glues; joints-; glued-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-02324
UD: 9110
AN: F538186
DC: 1F070; 1F0433; 1F066
SM: See UNIDO (1977)

475 of 788
TI: A method of measuring formaldehyde liberated from a wooden cabinet [made of UF-bonded plywood].
AU: Kubota,-M; Hirata,-S; Takahashi,-H
SO: Journal-of-the-Hokkaido-Forest-Products-Research-Institute. 1978., No. 313, 1-6 + sum; 7 ref. BLL.
PY: 1978
LA: Japanese
LS: English
DE: plywood-; physical-and-mechanical-properties; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1979 002-02341
UD: 9110
AN: F547195
DC: 1F072; 1F028; 1F066

476 of 788
TI: Computer analysis of chair frames (Fortran and Basic).
AU: Eckelman,-CA; Fergus,-DA
AD: Dep. For. & Natural Resources, Agric. Exp. Sta., Purdue Univ., West Lafayette, Indiana, USA.
S O :
Research-Bulletin,-Agricultural-Experiment-Station,-Purdue-University. 1976., No. 237, 24 pp.; 5 ref. PR.
PY: 1976
LA: English
AB: The program, which was developed to analyse rigid-jointed quadrangular side frames, is described and examples are given of the preparation of the data and of the interpretation of the output for both the FORTRAN and the BASIC compilers.
DE: furniture-and-furniture-making; computer-techniques
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1978 001-00100
UD: 9110
AN: F392086
DC: 1F0661; 1F0129

477 of 788
TI: Problems of environment protection in the board and furniture industry.
OT: Probleme des Umweltschutzes in der Platten- und Mobelindustrie.
AU: Kusian,-R; Hartmann,-E
AD: Forschungsinst. f. Holztechnol., Dresden, German Democratic Republic.
SO: Holzindustrie. 1977., 30: 3, 74-77; BLL.
PY: 1977
LA: German
AB: The general effects of waste products of the board and furniture industry on the environment are discussed and an attempt is made to assess the size of the problem. The main areas where action could be taken are: reduction and rendering harmless of effluents containing residues of glue, varnish and solvents, primarily from veneer and fibreboard production; minimization of gas- and dust-emission, especially formaldehyde vapour and sawdust from chipboard production; harmless disposal of useless bark, chippings and dust; reduction of noise from machinery.
DE: effluents-; industrial-; forest-industry; pollution-problems; panels-; manufacture-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-00008
UD: 9110
AN: F403142
DC: 1F028

478 of 788
TI: Breaking down the waste from export lumber into dimension stock for furniture.
OT: Raskroi otpada ot pilomaterialov eksportnogo naznacheniya na chernovye zagotovki dlya mebeli.
AU: Surovtseva,-LS
AD: Lesotekh. Akad., Leningrad, USSR.
SO: Lesnoi-Zhurnal. 1977., No. 1, 157-158.
PY: 1977
LA: Russian
AB: Grades III and IV of Soviet lumber (Soviet Standard GOST 8486-66) were broken down to produce furniture dimension stock [see FA 38, 2003]. The lumber was divided by species (pine; spruce), thickness (medium and thin), and length (2-6.5 m, 1.0-1.75 m, and 0.5-0.9 m). Each board was broken down by three different treatments, viz. (1) into solid pieces; (2) into solid pieces and length-glued pieces; and (3) length-glued pieces of all the defect-free off-cuts. Yields are tabulated; method (3) gave the greatest yield; the yield of furniture dimension stock of pine was greater than that of spruce for medium thicknesses, but was less than that of spruce for thin pieces.
DE: Pinus-sylvestris; wood-; grading-; furniture-; Picea-abies; furniture-and-furniture-making; USSR-; timber-trade; defects-in-wood; effect-on-lumber-recovery; sawmilling-; sawing-quality; defects-; outturn-; recovery-
GE: USSR-

PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-00137
UD: 9110
AN: F408284
DC: 1F092; 1F0661

479 of 788
TI: Testing and inspection in construction strength of Taiwan's export wood furniture (chairs).
AU: Yeh,-CM
SO: Quarterly-Journal-of-Chinese-Forestry. 1975., 8: 4, 93-100; 8 ref.
PY: 1975
LA: Chinese
LS: English
AB: Samples of chairs were taken and subjected to 4 tests based on those of N. European countries (Denmark, Sweden and UK): (a) back fatigue test, (b) back impact test, (c) seat impact test, and (d) drop test. The chairs met the acceptable quality level (AQL) for (d) only. It is suggested that performance in (a) and (b) would be improved by placing a triangle dovetail in the joint between seat and back, and that a horizontal member of better quality wood supporting the middle of the seat would improve performance in (c). Figures and tables have English captions.
DE: Taiwan-; woodworking-; furniture-and-furniture-making; strength-testing; joints-and-jointedassemblies
GE: Taiwan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-00322
UD: 9110
AN: F409671
DC: 1F0661; 1F10
SM: P

480 of 788
TI: A forestry scheme in Samoa.
AU: Shankman,-P
SO: Natural-History. 1975., 84: 8, 60-69.
PY: 1975
LA: English
AB: A survey of the hardwoods in Western Samoa revealed more than a dozen species that could be used for furniture and veneer. A commercial mill scheme, including a 20-year forest land lease, is described and its advantages and disadvantages are discussed. A land tenure system is outlined.
DE: Samoa-; forest-industry; leases-; land-; furniture-and-furniture-making; veneer-; raw-materials; combinations-with-forestry; woodworking-
GE: Western-Samoa
PT: Numbered-Part
CI: Abstracts on Tropical Agriculture 3 (1), 12662. X.
CAB: OF Forestry-Abstracts 1978 039-00784

UD: 9110
AN: F413318
DC: 0DC0219; 1F0219; 1F043

481 of 788
TI: Hot-melt glue for assembly of corner mitre joints in cabinet furniture.
OT: Tavne lepidlo pro montaz rohovych spoju skrinoveho nabytku spojovanim na pokos.
AU: Bucek,-B; Zahradka,-A
AD: Vyzk. Ustav Makromol. Chemie, Brno, Czechoslovakia.
SO: Drevo. 1977., 32: 8, 244-246, 250 + smries.; 2 pl. PR.
PY: 1977
LA: Czech
LS: Russian, German, English
AB: Test results are reported for a new glue '807' developed by VUMCH (Brno) on the basis of ethylene/vinyl acetate copolymers of COMECON manufacture. Tests were made on the gluing of beech specimens and the assembly of veneered particleboard cabinets by the rapid 'folding method' (whereby the components are lightly taped together on the outside, and a line of melted glue is applied to the open joints which are then snapped shut). The new glue (marketed as Gluflene N 2) was comparable with a much dearer imported glue.
DE: glues-and-gluing; synthetic-glues; joints-; glued-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-00588
UD: 9110
AN: F416260
DC: 1F0661; 1F0433

482 of 788
TI: Stressing of chairs by selected testing methods.
OT: Namahanie stoliciek podl'a vybranych skusobnych metod.
AU: Oltman,-L
AD: Statny Drevarsky Vyskumny Ustav, Statna Skusobna 216, Bratislava, Czechoslovakia.
SO: Drevo. 1977., 32: 1; 2, 11-14; 40-44+smries.; 21 ref. PR.
PY: 1977
LA: Slovakian
LS: Russian, German, English
AB: A comparison of 4 methods, viz. those of BS 1960-53, CSN 91 (Czechoslovakia), SIS 83 95 03 (Sweden, 1974) and COMECON (1972 recommendations), the principles of which are described, with test results on 2 types of chair. The Swedish method proved conclusively the best. Fracture tests were then made on the back joints of 10 types of chair, including comparisons with their theoretical strength. In general the mortise-glued types proved stronger than the screwed types, but both groups varied widely between individual designs.
DE: furniture-and-furniture-making; standards-; furniture-

PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-00589
UD: 9110
AN: F416503
DC: 1F0661

483 of 788
TI: Dimensional standardization of furniture dimension stock as a cooperative development.
OT: Rozmerova unifikacia masivnych dielcov nabytku posilni rozvoj kooperacnych vzt'ahov.
AU: Kolejak,-M
AD: Vysk. Vyvoj. Ustav Drev. Nabyt. Priem., Bratislava, Czechoslovakia.
SO: Drevo. 1977., 32: 86-90+smries.; PR.
PY: 1977
LA: Slovakian
LS: Russian, German, English
AB: Data are presented on the estimated volumes of dimension stock, of various rectangular cross-sections, consumed by the furniture industry in Czechoslovakia in 1976, for two categories: (a) beech [Fagus sylvatica] table legs; and (b) softwood dimension stock. In (a), 22 different thickness/width combinations were recorded, and in (b), 70. Proposals are made to reduce these to resp. 5 and 20 standard sizes, resp. 19-49 and 19-39 mm thick when shaped.
DE: Fagus-sylvatica; wood-; furniture-; Czechoslovakia-; standards-; woodworking-; furniture-and-furniture-making
GE: Czechoslovakia-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-00590
UD: 9110
AN: F417402
DC: 1F0661

484 of 788
TI: Developments in fibreboard manufacture.
OT: K rozvoju vyroby vlaknitych dosak.
AU: Eisner,-K
AD: Drev. Fak. VSLD, Zvolen, Czechoslovakia.
SO: Drevo. 1977., 32: 6, 164-166 + smries.; 11 ref. PR.
PY: 1977
LA: Slovakian
LS: Russian, German, English
AB: A review of the manufacture, properties and uses of medium-density hardboard, mainly from US sources. This material has advantages over particleboard in furniture manufacture.
DE: fibreboard-; physical-and-mechanical-properties; manufacture-; uses-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-00814
UD: 9110
AN: F41912X

DC: 1F074

485 of 788
TI: Conditions for production of durable and strong mortise and dowel joints.
OT: Podmienky zhotovenia trvanlivych a unosnych capovych a kolikovych spojov.
AU: Kamenicky,-J
AD: Drev. Fak. VSLD, Zvolen, Czechoslovakia.
SO: Drevo. 1977., 32: 4, 106-110, 124 + sum.; 12 ref. PR.
PY: 1977
LA: Slovakian
LS: Russian, German, English
AB: A summary of research findings (with special reference to furniture testing), discussing: wood quality and species (with data for the torsional strength of various woods); moisture exchange between wood and surroundings (briefly); glue type and gluing technique; and accuracy of woodworking, also covering the use of various dowel profiles (grooved, ridged etc.).
DE: woodworking-; joints-; dowelled-; furniture-and-furniture-making; glues-and-gluing; strength-of-wood; torsion-; chiselling-; mortising-and-tenoning
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-00750
UD: 9110
AN: F420624
DC: 1F0433; 1F066

486 of 788
TI: Studies on the market of wooden furniture of Taiwan.
AU: Lee,-JK
AD: National Taiwan Univ., Taiwan.
SO: Bulletin,-Experimental-Forest,-National-Taiwan-University. 1977., No. 119, 97-121; 15 ref.
PY: 1977
LA: Chinese
LS: English
AB: The study is based on data collected from interviews with representatives of 180 furniture and woodworking firms in 1974, on data collected from 157 furniture manufacturers by the Taiwan Forestry Bureau in 1972 and on secondary data from many sources. The following aspects are analysed: the relations between the growth of the industry and house construction, GNP, prices, population structure, income and export trends; distribution channels and pricing; consumer behaviour; and the effects of changes in import duties, freight rates etc. on the export trade. The tables have English captions.
DE: Taiwan-; marketing-; woodworking-; furniture-and-furniture-making; marketing-of-forest-produce
GE: Taiwan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-00664

UD: 9110
AN: F421124
DC: 1F10; 1F066

487 of 788
TI: Information sources on the furniture and joinery industry.
SO: UNIDO-Guides-to-Information-Sources. 1977., No. 4 (revised ed.), 89 pp.; 50 ref. PR.
PY: 1977
LA: English
AB: An introduction and explanatory notes are given in English, French, Russian and Spanish. Details of information sources are listed in the following sections: Professional, trade and research organizations, learned societies and special information services; Directories; Sources of statistics, marketing and other economic data; Basic handbooks, textbooks and manuals; Monograph series; Current periodicals; Current abstracting and indexing periodicals; Proceedings, papers and reports of the United Nations and related bodies; Specialized dictionaries and encyclopaedias; Bibliographies; Films and film catalogues; Other potential sources of information.
DE: documentation-and-information-services; furniture-and-furniture-making; woodworking-; bibliographies-and-reference-works; joinery-
PT: Numbered-Whole
AV: $4.00
CAB: 1F Forest-Products-Abstracts 1978 001-00669
UD: 9110
AN: F424433
DC: 1F011

488 of 788
TI: Special number on the 1977 Ligna/Interzum trade fair.
OT: Messeheft 1977 Ligna/Interzum.
SO: Holz-Zentralblatt. 1977., 103: 57, 344 pp.
PY: 1977
LA: German
AB: A special number on the 'Ligna' international exhibition of machines and equipment for the wood industry (Hanover, 18-24 May) and the 'Interzum' international exhibition of accessories,tools and materials for the manufacture of furniture, interior decoration and the upholsteryindustry (Cologne, 14-17 May), discussing in its main sections the exhibits of different firmsin alphabetical order (one series covering both exhibitions).
DE: forest-industry; machines-; tools-; equipment-; woodworking-; furniture-and-furniture-making
GE: German-Federal-Republic
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1978 001-00685
UD: 9110
AN: F42462X
DC: 1F026

489 of 788
TI: Forest industry of the USSR, 1917-1977.
OT: Lesnaya promyshlennost' 1917-1977.
AU: Ivantev,-VC; Avdeev,-AS; Gatskevich,-VA
SO: Lesnaya-Promyshlennost'. 1977., No. 10, 32 pp.
PY: 1977
LA: Russian
AB: A special number of the journal, devoted mainly to reviewing achievements of the forest industry of the USSR since 1917. Articles of interest include:Ivantev, V.C.; Avdeev, A.S. [Forestry in the first decrees issued under Soviet power.] Les v pervykh dekretakh sovetskoi vlasti. [2 ref.]Gatskevich, V.A. [The start of mechanization.] S chego nachinalas' mekhanizatsiya.-A description of some of the earliest types of forestry machinery developed in the USSR in the 1920s and 1930s, e.g. producer-gas tractors and lorries, and some subsequent developments.[Scales of growth.] Masshtaby rosta.-A statistical review of growth in the production of plywood, particle board, fibreboard and furniture.
DE: USSR-; forest-industry; mechanization-of-forest-operations; plywood-and-veneer; particleboard-; fibreboard-; woodworking-; development-; forestry-; machines-; tools-; equipment-; mechan-ization-in-forestry; general-; machine-types-and-design; plywood-; statistics-; industry-; furnitureand--furniture-making
GE: USSR-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1978 001-01049
UD: 9110
AN: F427041
DC: 1F0214

490 of 788
TI: Dowel and tenon joints for furniture.
AU: Sparkes,-AJ
AD: FIRA, Maxwell Road, Stevenage, Herts SG1 2EW, UK.
SO: 1977, 72 pp.; 17 ref., 10 pl. PR. Stevenage, Herts, UK; Furniture Industry Research Association.
PY: 1977
LA: English
AB: This booklet deals with selection of materials, machining techniques and methods of assembly, and the effect of each of these factors on the strength of dowel and tenon joints. Particular emphasis is placed on the use of dowel and tenon joints for constructing chair frames.
DE: joints-; glued-; dowelled-; furniture-and-furniture-making; chiselling-; mortising-and-tenoning
PT: Unnumbered-Whole
AV: pounds-sterling 5
CAB: 1F Forest-Products-Abstracts 1978 001-00993
UD: 9110
AN: F42851X
DC: 1F0661; 1F0433

491 of 788
TI: Determining the minimum permissible radius of bending of a set of plies.
OT: Opredelenie minimal'no dopustimogo radiusa izgiba paketa shpona.
AU: Yanson,-AI; Dyachun,-ZI
AD: Lesotekh. Inst., L'vov, Ukrainian SSR.
SO: Lesnoi-Zhurnal. 1977., No. 3, 74-78; 4 ref., 1 graph.
PY: 1977
LA: Russian
AB: In previous work [see FA 35, 4739] a method was developed for determining the minimum permissible radius of bending of individual sheets of veneer. This method is here extended to apply to sets of plies (as used in bent-and-glued furniture), and a nomogram is constructed to assist in these calculations. The nomogram determines the angle of contact of the curved die with the set of plies, for radii 3-90 mm and different distances between the supports (i.e. spans of 10-900 mm), for an amount of deflection of the set of plies equal to the die radius. The investigations showed that it is necessary to examine only the outer plies in the set for defects in bending.
DE: plywood-; manufacture-; physical-and-mechanical-properties; defects-; bending-; wood-; furniture-and-furniture-making; bentwood-; composite-; strength-
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01417
UD: 9110
AN: F436679
DC: 1F072

492 of 788
TI: The dimensional stability of furniture panels.
OT: O formoustoichivosti mebel'nykh shchitov.
AU: Glukhikh,-LS; Resina,-ZF; Vetoshkin,-Yu.I
AD: Ural'skii Lesotekh. Inst., USSR.
SO: Lesnoi-Zhurnal. 1977., No. 3, 91-94; 2 ref.
PY: 1977
LA: Russian
AB: Investigations were made of the dimensional stability and internal stresses in the gluelines of 3-layer particle-board faced with various materials, viz. sliced ash veneer 1 mm thick, peeled birch veneer 1.5 mm thick, textured fabric, textured paper, and 'synthetic veneer' (textured paper impregnated with synthetic resins). As regards dimensional stability and internal stresses, the panels faced with paper and fabric are better than those faced with sliced veneer. Boards faced with the 'synthetic veneer' also exhibited significantly less buckling than those faced with sliced ash veneer, and met the dimensional-stability requirements of GOST 16371-70.
DE: panels-; physical-and-mechanical-properties; surface-overlays; standards-; particleboard-; USSR-; furniture-and-furniture-making

GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01206
UD: 9110
AN: F436733
DC: 1F0661; 1F075

493 of 788
TI: STUB - a manufacturing system for producing rough dimension cuttings from low-grade lumber.
AU: Lucas,-EL; Gatchell,-CJ
AD: USDA For. Serv., NEFES, For. Products Marketing Lab., Princeton, W. Virginia, USA.
SO: USDA-Forest-Service-Research-Note,-Northeastern-Forest-Experiment-Station. 1976., No. NE-222, 5 pp.; 2 ref.
PY: 1976
LA: English
AB: A description of the STUB (Short Temporarily Upgraded Boards) 'rough mill' system (in a furniture factory) for producing dimension stock from low-grade lumber. It has been estimated from a previous study [see FA 34, 6609] that No. 2 common oak lumber may yield over one-third of its vol. in the form of 40-inch-long or longer cuttings. A pilot line of STUB is being established to evaluate efficiency and yield.
DE: furniture-and-furniture-making; grading-and-sorting; sawn-timber; sawmilling-; economics-; outturn-; recovery-
GE: USA-
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1978 001-01247
UD: 9110
AN: F43739X
DC: 1F092; 1F0661

494 of 788
TI: The effect of electrocoating used in wood and bamboo furniture material.
AU: Yeh,-CM; Hsiung,-JC
AD: Taiwan For. Res. Inst., Taipei, Taiwan.
SO: Bulletin,-Taiwan-Forestry-Research-Institute. 1975., No. 269, 12 pp.; 9 ref.
PY: 1975
LA: Chinese
LS: English
AB: The effect of finishing methods (electrocoating, spraying or brushing) applied 1-3 times was determined on products made from panels of Dysoxylum caulostachyum, Gonystylus bancanus and Phyllostachys edulis. Data are tabulated (with English captions) for hardness, gloss, smoothness and adhesion of coating. The best results were obtained by electrocoating parallel to grain, with 2 coats, although hardness was inferior to that obtained by brushing.
DE: Dysoxylum-caulostachyum; Gonystylus-bancanus;

Phyllostachys-edulis; bamboos-; treatment-; furniture-and-furniture-making; panels-; finishes-and-finishing
PT: Numbered-Whole
CAB: 1F Forest-Products-Abstracts 1978 001-01395
UD: 9110
AN: F440253
DC: 1F055

495 of 788
TI: The wild cherry (Prunus avium): its ecology and economic importance.
OT: Die Vogelkirsche (Prunus avium L.): ein Beitrag zur Okologie und wirtschaftlichen Bedeutung.
AU: Beck,-OA
SO: Forstarchiv. 1977., 48: 8, 154-158; 23 ref., 1 pl.
PY: 1977
LA: German
LS: English
AB: The distribution, ecology, silvicultural requirements, biology and growth characteristics of P. avium are reviewed, and the properties and uses (chiefly high-quality furniture manufacture)of its wood are described. P. avium is very intolerant of shade, and needs carefulsilvicultural treatment, including protection from roe deer, but under favourable conditionsit can reach approx. 15 cm d.b.h. in 15-20 yr., and an av. diam. of approx. 50 cm by the ageof 60 yr. It is suggested that greater use should be made of this species in Germany, both forthe economic value of its wood (comparing favourably with oak and beech), and for itsaesthetic value as a tree. By selecting appropriate provenances, it should be possible toestablish P. avium on the poorer soils of the Pleistocene plain of N. Germany.
DE: Prunus-avium; Germany-; West-; trees-and-shrubs-for; silvicultural-characters-of-trees; furniture-and-furniture-making
GE: Europe-; German-Federal-Republic
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1978 039-02930
UD: 9110
AN: F441936
DC: ODC071; 1F030
SM: P

496 of 788
TI: Papers presented at the National Timber Congress, Kuala Lumpur, 8-10 Nov. 1976.
AU: Mok,-ST; Radzuan-Abdul-Rahman; Martyn,-HS-Datuk; Udarbe,-NP; Yong,-J; Cheong,-EC; Ellis,-W; Mordeno,-AG; Ibbotson,-BR; Ibrahim-bin-Haji-Ismail; Jamil-bin-Mohd.-Jan,-Dato; Chong,-PW, Dato; Murthy,-LSV; Minos,-P; Thorpe,-E; Kok,-FLC; Sylvester,-CD; Doi,-SH; Sunley,-JG; Hajeedar-Majid; Wee,-D; Lew,-WH; Hall,-T; Akbar-Khan; Abdul-Rahman-bin-Chik,-Engku; Ong,-CK, Dato; Koludrovic,-D; Lee,-YH; Mustafa-b-Muda; Dhanarajan,-G
CA: Malaysia, Malaysian Timber Industry Board and Forestry

Department, Peninsular Malaysia.
SO: 1976, 86 pp.; TRADA.
PY: 1976
LA: English
AB: The papers presented include:Radzuan Abdul Rahman Forest policy and planning for sustained resource flow.Mok, S.T. Log supplies in Peninsular Malaysia. Are we running out of logs? [20 ref.] The need is stressed for a greater contribution from the private sector in more efficient utilization and renewal of forest resources.Martyn, H.S., Datuk; Udarbe, N.P. Forestryplanning and management practices in Sabah. [6 ref.] A historical survey and discussion ofpresent problems.Yong, J.; Cheong, E.C. The nature of the resource base in Sarawak. [4 ref.] Distribution and harvesting of various forest types.Ellis, W. An overview of logging methods in Malaysia. - The problems of logging in hilly areas.Mordeno, A.G. Investments in logging operation in Malaysia. - A 5-yr investment plan is outlined for road construction and logging operations in an enterprise with an annual cut of about 100 000 forest tons; the use is considered of cable yarding and heelboom loading in Malaysia.Ibbotson, B.R. Logging hill forests in Sabah.Ibrahim bin Haji Ismail The need for mechanisation in logging operations. [10 pl.]Jamil bin Mohd. Jan, Dato Wood processing. An overview of the timber based industry.Chong, P.W., Dato Modernization and diversification of the [Malaysian] wood processing industry to meet future market requirements. [12 ref.]Murthy, L.S.V.; Minos, P.; Thorpe, E. Sarawak - a preview of timber complexes in the making. [2 ref.] The projected wood-based industrial development in the area of mixed dipterocarp forest inventoried by FAO in 1968-72 is described.Kok, F.L.C. Profile of the timber moulding industry in Malaysia.Sylvester, C.D. Processing of small diameter logs and forest residual wood. - Gangsaws are not regarded as suitable for Malaysia; an outline is given of the features needed in bandsaw mills for small-diam. logs.Ooi, S.H. Profile of the wooden furniture industry in Peninsular Malaysia and its future prospects.Sunley, J.G. Scope for the wider utilization of tropical hardwoods. - Deals with structural and non-structural construction, furniture and other industrial uses, mainly in the UK and Europe; the uses of 11 species are noted.Hajeedar Majid Residential timber house design and construction. A report of the decline in the use of timber for house-building in Malaysia, the factors involved and the need for a review of building bye-laws.Wee, D. The utilization of timber in governmental buildings.Lew, W.H. Product-orientated research and development - a key to greater utilization and marketing of timber. [7 ref.]Hall, T. Future world markets for tropical sawnwood and wood based products. [5 ref.]Akbar Khan The Middle East market for timber products.Abdul Rahman bin Chik, Engku Proposals for further promotion of knockdown furniture.Ong, C.K., Dato Marketing of Malaysian plywood.Koludrovic, D. Avenues for a more efficient sea transport system for timber products.Lee, Y.H. A review of grading and quality control of timber products in Malaysia.Mustafa b. Muda Kiln drying operation and techniques.Dhanarajan, G. The protection of timber against insects and fungi. [6 ref.]
DE: Malaysia-; forests-and-forestry; forest-policy;

private-forestry; logging-; Sabah-; Sarawak-; forest-resources; terrain-classification-and-effects; mechanization-; seasoning-; buildings-; materials-; tropical-timbers; furniture-and-furniture-making; sawmilling-; equipment-; moulding-cutting-of-mouldings; forest-industry; tropical-; preservation-; wood-etc.
GE: Malaya-; Sabah-; Sarawak-
PT: Unnumbered-Whole
CAB: 1F Forest-Products-Abstracts 1978 001-01465
UD: 9110
AN: F445522
DC: 1F0215; 0DC0215; 1F0219; 1F0119; 1F042; 1F0661; 0DC0219

497 of 788
TI: Analysis of hot-pressing of three-layered particleboard for furniture. I.
OT: Ein Beitrag zur Analyse des Heisspressvorganges dreischichtiger Mobelspanplatten. I.
AU: Kuhne,-G; Belimov,-P
SO: Holzindustrie. 1978., 31: 1, 3-5; 1 pl. BLL.
PY: 1978
LA: German
AB: The density profile of particleboard affects its use for furniture construction and its surface finishing properties, and is correlated with other quality criteria. The region of max.density is just below the surface of the board, because of early hardening at the surface andpartial destruction of the bonding by further pressure. The density profile is mainly fixed inthe hot-pressing phase. The main parameters that govern the quality of the product and the productivity of the press are hot plate temp., max. specific pressure, max. closing speed and the form of the hot plates. A pilot plant has been developed in which the first 3 of these can be varied and the rate of compression of the mat and the temp. and pressure distributions can be registered and controlled. The distributions of m.c. and particle size in the mat are shown graphically. Optimal m.c. values are 17-28% for the outer layers and 7-14% for the middlelayer.
DE: particleboard-; uses-; grading-; quality-; manufacture-; physical-and-mechanical-properties;furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01584
UD: 9110
AN: F445533
DC: 1F073; 1F066

498 of 788
TI: Studies on the gluing of the wood articles. X. Gluing of the furniture parts with newadhesives.
AU: Sobukawa,-T; Kanazawa,-H
AD: Prefectural Indust. Res. Inst., Shizuoka, Japan.
SO: Mokuzai-Kogyo-Wood-Industry. 1977., 32: 10, 14-18; PR.
PY: 1977

LA: Japanese
LS: English
AB: Tests were made of the bondability with different glues of surfaces coated with urethane, polyester or amino-alkyd, glued with uncoated birch [Betula] wood. Aqueous vinyl urethane resin [VUR] adhesive was found suitable for urethane-coated and polyester-coated surfaces; PVA resin emulsion adhesive was suitable for amino-alkyd-coated surfaces. In bonding tests with uncoated teak [Tectona grandis], good bondability was obtained with aqueous VUR and resorcinol resin adhesives. The bond strength of teak bonded with VUR was increased by increasing the vol. of crosslinking agent in the adhesive. In standard shear-strength tests with structural laminated wood, using birch as adherent, the test was passed with 30% (w/w) of crosslinking agent added to the VUR adhesive.
DE: Tectona-grandis; wood-; joinery-; furniture-; Betula-spp.; furniture-and-furniture-making; glues-and-gluing; bonding-factors; synthetic-glues
GE: Japan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01689
UD: 9110
AN: F450714
DC: 1F0433

499 of 788
TI: Raw material inputs.
AU: Paavola,-P; Vaajoensuu,-A; Kaila,-A; Meriluoto,-J
CA: United Nations Industrial Development Organization.
SO: Furniture and joinery industries for developing countries. 1977., 3-91. New York, USA.
PY: 1977
LA: English
AB: Eleven chapters based on papers presented at five seminars held in Finland in 1971-1975, including:Paavola, P. Solid wood as raw material for the furniture and joinery industries. [37 ref.]UNIDO secretariat The requirements and use of wood-based panels in furniture manufacture. [2 ref.]; and Applications of particleboard in the furniture and joinery industries. [7 ref.]Vaajoensuu, A. The use of plywood and blockboard in the furniture and joinery industries.Kaila, A. The use of fibre building board in the joinery industry.Meriluoto, J. The use of glues and other adhesives in furniture and joinery.
DE: conferences-; symposia-; furniture-; furniture-and-furniture-making; joinery-; particleboard-; uses-; plywood-; blockboard-; glues-and-gluing; fibreboard-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01735
UD: 9110
AN: F452540
DC: 1F066

500 of 788
TI: Processing technology.
AU: Peippo,-S; Taskinen,-A; Karttunen,-A; Paavola,-P; Liusvaara,-A; Jantunen,-J; Bistrom,-PA; Ilonen,-K; Haakana,-J; Moilanen,-O; Akkanen,-A; Marttinen,-E; Winnlert,-E; Wagner,-P; Koskenranta,-R; Aaltonen,-O
CA: United Nations Industrial Development Organization.
SO: Furniture and joinery industries for developing countries. 1977., 95-330. New York, USA.
PY: 1977
LA: English
AB: Eighteen chapters based on papers presented at five seminars held in Finland in 1971-1975, including:Peippo, S.; Taskinen, A. Meeting the design needs of the furniture industry in developing countries.Taskinen, A. Service conditions of furniture designers in Scandinavian countries.Karttunen, A. Product development in a large furniture enterprise.Paavola, P. Technical product design; Plant layout; and Furniture technology.Liusvaara, A. Project planning in the furniture and joinery industries.Jantunen, J. Joinery technologyBistrom, P.A. Surface finishing of wood and wooden products.Ilonen, K. Surface finishing of furniture and joinery in small plants.Haakana, J. Potential for low-cost automation in the woodworking industries.Moilanen, O. Low-cost automation systemsAkkanen, A. Maintenance of machines and equipment.Marttinen, E. Maintenance of machine parts; and Woodworking tools and their maintenance.Winnlert, E. Types of machine tools for woodworking.Wagner, P. Sharpening carbide-tipped tools for use in working wood and plastic.Koskenranta, R.; Aaltonen, O.Packaging of furniture for export.
DE: conferences-; symposia-; furniture-; furniture-and-furniture-making; joinery-; finishes-and-finishing; surface-quality-of-wood-products; woodworking-; automation-; machines-; tools-; equipment-; packaging-
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01736
UD: 9110
AN: F452551
DC: 1F066

501 of 788
TI: Management considerations.
AU: Meriluoto,-J; Paavola,-P; Sirvio,-E; Harjula,-M; Routamo,-R; Lindberg,-K
CA: United Nations Industrial Development Organization.
SO: Furniture and joinery industries for developing countries. 1977., 333-382. New York, USA.
PY: 1977
LA: English
AB: Six chapters based on papers at five seminars held in Finland in 1971-1975, including:Meriluoto, J. Quality control.Paavola, P. Quality control in the furniture industry.Sirvio, E. Production management.Harjula, M. Marketing and export trade.Routamo, R. Export market surveys.Lindberg, K. Safety at work and occupational

hazards.
DE: conferences-; symposia-; furniture-; furniture-and-furniture-making; quality-control; marketing-of-forest-produce; timber-trade; marketing-information; accidents-and-their-prevention.
PT: Unnumbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01737
UD: 9110
AN: F452562
DC: 1F066; 1F10

502 of 788
TI: Pre-requisites for stress-grading dimension stock for soft furniture.
OT: Predposylki silovoi sortirovki zagotovok myagkoi mebeli.
AU: Golyakov,-AD
AD: Lesotekh. Inst., Archangel, USSR.
SO: Lesnoi-Zhurnal. 1977., No. 4, 102-105; 1 ref.
PY: 1977
LA: Russian
AB: Dimension stock intended for the frames of upholstered furniture was tested in bending. The test-pieces were clear (sound) wood and also wood with various knots and holes. The results show that the introduction of stress-grading would increase the yield of dimension stock, as many pieces are rejected unnecessarily by the visual grading carried out at present. Stress-grading would also improve the reliability of furniture in service.
DE: furniture-and-furniture-making; grading-and-sorting; stress-grading-and-mechanical-methods
GE: USSR-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01738
UD: 9110
AN: F455895
DC: 1F0661; 1F046

503 of 788
TI: Analysis of hot-pressing of three-layered particleboard for furniture. II.
OT: Ein Beitrag zur Analyse des Heisspressvorgangs dreischichtiger Mobelspanplatten. II.
AU: Kuhne,-G; Belimow,-F
SO: Holzindustrie. 1978., 31: 2, 50-52; 14 ref. BLL.
PY: 1978
LA: German
AB: The main processes which take place during hot-pressing are outlined. Graphs illustrate: the changes in temp. and vapour pressure at different positions in the mat during pressing; and the effects of changes in rate of compression, and in m.c. of the outer and inner layers of themat on the temp. changes in the middle of the mat and the density profile of the board.
DE: furniture-and-furniture-making; particleboard-; uses-;

manufacture-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01950
UD: 9110
AN: F456577
DC: 1F073

504 of 788
TI: Purpose-built for G-Plan.
AU: Martyr,-N
SO: Timber-Trades-Journal. 1978., 304: 5298, 41-42; 2 pl.
PY: 1978
LA: English
AB: An account of a double-end profiling line installed at the furniture manufacturing plant of E. Gomme Ltd. at High Wycombe, UK. Digital control of the line enables cutter head position to be set to within plus or minus 0.1 mm. The line runs at a speed of 58 ft/min and has a throughput of 18 panels/min.
DE: furniture-and-furniture-making; Great-Britain; woodworking-; machines-; tools-; equipment-
GE: UK-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01944
UD: 9110
AN: F460911
DC: 1F066

505 of 788
TI: New moulding system.
SO: Australian-Forest-Industries-Journal. 1977., 43: 11, 19-21; 2 pl.
PY: 1977
LA: English
AB: A description of a moulding consisting of a particleboard core surrounded by a rigid PVC sheath and covered by decorative aluminium strips. A flexible, peel-off PVC sheath protects the aluminium from damage and also forms sealing flanges on selected profile areas. The moulding is manufactured by a one-step double-extrusion process and can be used in furniture and interior building applications.
DE: moulded-products; furniture-and-furniture-making; buildings-; fittings-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-01883
UD: 9110
AN: F461010
DC: 1F0434; 1F066; 1F0631
SM: P

506 of 788
TI: Effect of dowel diameter on the strength of corner joints

between panels.
OT: Wplyw srednicy kolkow na wytrzymalosc katowych zlaczy plytowych.
AU: Dziegielewski,-S; Bilski,-A; Waloszczyk,-E
SO: Przemysl-Drzewny. 1977., 28: 7, 5-8 + sum.; 5 ref. PR.
PY: 1977
LA: Polish
LS: Russian, English
AB: Butted joints (as used in furniture) were made from 3-layer particleboard 12-19 mm thick, fastened with [beech] dowels 4-11 mm in diam. and glued with PVA. The dowels fitted orthogonally in the end of one board and the face (near the end) of the other. The joints were tested, after seasoning for 14 days, in angular tension and compression. Max. strength in boards 12, 16 and 19 mm thick was obtained with dowels resp. 6, 8 and 11 mm in diam. The result agreed closely with theoretical calculations.
DE: furniture-and-furniture-making; particleboard-; joints-; testing-; dowelled-; strength-testing; joints-and-jointed-assemblies
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-02090
UD: 9110
AN: F462011
DC: 1F0433; 1F073; 1F066

507 of 788
TI: Stain for furniture obtained by alkaline hydrolysis of wood.
AU: Vidimski,-E; Kavalov,-A; Tantilov,-N; Sokolov,-T
AD: Higher Chem. Technol. Inst., Durvenitsa, Sofia-56, Bulgaria.
SO: D"rvoobrabotvashcha-i-Mebelna-Promishlenost. 1976., 19: 8, 239-241.
PY: 1976
LA: Bulgarian
AB: A stain for imparting a uniform walnut-brown colour to wood is made by oxidative hydrolysis at high temp., the wood being completely dissolved. The stain is isolated after neutralization of the hydrolysate with H2SO4 and dried; it is soluble in weakly alkaline aqueous sol. and is applied in the same way as common walnut stain.
DE: furniture-and-furniture-making; hydrolysis-of-wood; staining-of-wood
PT: Numbered-Part
CI: Abstracts of Bulgarian Scientific Literature, A (1977) 235. BLL.
CAB: 1F Forest-Products-Abstracts 1978 001-01928
UD: 9110
AN: F462121
DC: 1F055; 1F083; 1F066

508 of 788
TI: Mechanical properties of chairs. I. Static load test and repeated impact test of chairs.

AU: Takayanagi,-H; Hayashi,-R; Ohno,-T; Ugawa,-N
AD: Indust. Prod. Res. Inst., Agency of Indust. Sci. & Technol., Ohta-Ku, Tokyo 144, Japan.
SO: Mokuzai-Gakkaishi-Journal-of-the-Japan-Wood-Research-Society. 1976., 22: 12, 661-669; 13 ref. PR.
PY: 1976
LA: Japanese
LS: English
AB: In the static load test, the tapered legs of small chairs of Fagus crenata wood were treated as bars of variable cross-section. The axial forces of the stretchers were calculated by the principle of least work; the deflection at the joint between the front leg and side rail (A joint) was calculated by the principle of virtual work. The ratio of the deflection at the A joint by shearing force to the true deflection, and the ratio of the axial forces in the stretchers by shearing force to the true axial forces, were both 8%. In the repeated impact test, the calculated bending moment (regarded as the product of total mass and impact acceleration) agreed with the experimental bending moment. From English summary. The tables and figures have English captions.
DE: Fagus-crenata; wood-; furniture-; strength-properties; furniture-and-furniture-making; strength-of-wood; bending-
GE: Japan-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-02168
UD: 9110
AN: F462374
DC: 1F066; 1F032

509 of 788
TI: Effect of changes in moisture content of wood on tolerances and fitting.
OT: Wplyw zmian wilgotnosci drewna na tolerancje i pasowania.
AU: Staniszewski,-J; Marzymski,-W; Porankiewicz,-B; Staniszewska,-A
SO: Przemysl-Drzewny. 1977., 28: 6, 4-6 + sum.; 5 ref. PR.
PY: 1977
LA: Polish
LS: Russian, English
AB: A theoretical discussion illustrated with nomograms showing the effects of m.c. changes on tolerances in fitting parts (tenons) of beech [Fagus sylvatica] furniture. It is shown that m.c. changes of 5% have a significant effect on fit, especially in joints made tangentially to growth rings. Standardization aspects are discussed.
DE: Fagus-sylvatica; wood-; moisture-relations; furniture-; moisture-; sorption/desorption-; furniture-and-furniture-making; joints-; standards-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-02091
UD: 9110
AN: F466367
DC: 1F0433; 1F0661; 1F045

510 of 788
TI: Trials of laser technique for cutting wood and wood-based products.
OT: Proby zastosowania techniki laserowej do ciecia drewna i tworzyw drzewnych.
AU: Dzioch,-R; Parys,-J; Rutkowski,-S; Zalejski,-S; Ziolo,-J
SO: Przemysl-Drzewny. 1977., 28: 5, 3-6 + sum.; 8 ref. PR.
PY: 1977
LA: Polish
LS: Russian, English
AB: Preliminary trials were made with a 220-W CO2 molecular laser at a furniture factory in Poland. Relations between cutting speed, depth of cut and depth of focus are reported for pine [Pinus sylvestris] or oak [Quercus robur] lumber or 12-mm plywood. The quality of cutting was good, but was less satisfactory in another trial on particleboard.
DE: Pinus-sylvestris; wood-; plywood-; particleboard-; Quercus-robur; furniture-and-furniture-making; Poland-; woodworking-; lasers-; working-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-02169
UD: 9110
AN: F467511
DC: 1F066; 1F0431

511 of 788
TI: Dimensional stability of bark boards intended for furniture manufacture.
OT: Stabilnosc kszaltu plyt korowych przeznaczonych dla meblarstwa.
AU: Metrak,-C; Zaborowski,-M
SO: Przemysl-Drzewny. 1977., 28: 5, 15-18, 38; PR.
PY: 1977
LA: Polish
AB: A series of tests was made on 16-mm boards of pine [Pinus sylvestris] bark from 2 factories in Poland, either in the raw state or after various surface treatments: hot rolling after application of water or paraffin; lamination on both sides with alder [Alnus sp.] veneer or hardboard; or coating on one side with polyester lacquer. The tests were by Fischer's method of exposure to water vapour at 65 deg C on the lower side only (the other being at room temp.)for periods of up to 2 wk. Three-layered particleboards were used as controls. The results (in graphs and a table) show generally inadequate stability of the bark boards, except when laminated with hardboard (which made them too heavy for general use in furniture). An unexpected result was the superior stability of boards made of young bark (from the upper stem) compared with old bark (from large logs), probably owing to more rapid and uniform penetration of moisture through the young bark.
DE: Pinus-sylvestris; bark-; uses-; physical-properties; wood-; particleboard-; surface-overlays; testing-; raw-materials; treatment-; uses-and-products; furniture-and-furniture-making;

Poland-
GE: Poland-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-02190
UD: 9110
AN: F469007
DC: 1F073; 1F092; 1F0321

512 of 788
TI: Flexural design of composite panels for movable furniture shelf.
AU: Furusawa,-T
AD: Asahikawa Industrial Arts Inst., 3-3 Toyooka Asahikawa 078-11, Japan.
SO: Mokuzai-Gakkaishi-Journal-of-the-Japan-Wood-Research-Society. 1977., 23: 10, 465-471; 8 ref. PR.
PY: 1977
LA: Japanese
LS: English
AB: The conventional bending theory was applied to predict the stiffness in bending of composite panels consisting of solid timber framework or particleboard core, with facings of 3 mm or 6 mm plywood. It was shown that the design bending stiffness can be well predicted, and recommended max. spans are calculated.
DE: panels-; physical-and-mechanical-properties; strength-of-wood; bending-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-02463
UD: 9110
AN: F472824
DC: 1F075; 1F0323; 1F0661

513 of 788
TI: A transfer machine for manufacture of drawers by a folding process.
OT: Une machine transfert 'folding' pour la fabrication des tiroirs.
SO: Revue-du-Bois-et-de-ses-Applications. 1977., No. 11, 59; 1 pl. BLL.
PY: 1977
LA: French
AB: An automatic machine, based on the Wigo tenoner, which makes up 3 or 4 drawer sides from one piece by notching, dowelling and folding. A slot is also cut to receive the drawer bottom.
DE: furniture-and-furniture-making
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-02432
UD: 9110
AN: F473704
DC: 1F0661

514 of 788
TI: Bisolen: a postformable wood composite.
OT: Bisolen: agglomere bois postformable.
SO: Revue-du-Bois-et-de-ses-Applications. 1977., No. 11, 40-41; 2 pl. BLL.
PY: 1977
LA: French
AB: Bisolen (developed by the Bison company) is a new composite of wood fibres in a synthetic resin binder, produced in large panels than can be moulded after manufacture. The inclusion of a particulate wood extender results in a 40-70% saving of resin. Main properties are: density, 700-900 kg/m3; tensile strength 0.9N/mm2; bending strength 21 N/mm2. Uses include fittings in road vehicles and boats, packaging, and furniture (especially seating).
DE: composite-wood-assemblies; furniture-and-furniture-making; packing-containers; fibreboard-; uses-
PT: Numbered-Part
CAB: 1F Forest-Products-Abstracts 1978 001-02464
UD: 9110
AN: F473726
DC: 1F075; 1F074

515 of 788
TI: Rubber wood - an under-exploited resource.
AU: Chin,-PS; Khoo,-TC
AD: Rubber Res. Inst. of Malaysia, Kuala Lumpur, Malaya.
SO: Planters'-Bulletin. 1977., No. 149, 54-60.
PY: 1977
LA: English
AB: Rubber [Hevea brasiliensis] wood in Malaya is currently used mainly as fuel. It is suggested that the timber could be better exploited by using it for pallet and furniture construction.
DE: Hevea-brasiliensis; Malaya-; fuelwood-; pallets-; furniture-and-furniture-making
GE: Malaya-
PT: Numbered-Part
CI: Abstracts on Tropical Agriculture 4 (4), 19755. X.
CAB: 1F Forest-Products-Abstracts 1978 001-02412
UD: 9110
AN: F473957
DC: 1F060

516 of 788
TI: Rough thickness requirements for Red Oak furniture cuttings.
AU: Freese,-F; Stewart,-HA; Boone,-RS
S O :
USDA-Forest-Service-Research-Paper,-Forest-Products-Laboratory,-Madison. 1976., No. FPL 276, 5 pp.
PY: 1976
LA: English
AB: Reports a preliminary study to examine the losses in thickness that occur in drying and dressing nominal 1-inch Quercus rubra

lumber, and makes recommendations on the thickness of rough lumber required to produce cuttings and panels of a desired final thickness (typically 13/16 inch). Control of sawing variation and of warping during drying are two major problems in the reduction of waste at sawmills.
DE: Quercus-rubra; wood-; furniture-; drying-; furniture-and-furniture-making; seasoning-; for-particular-uses; sawmilling-; sawing-quality; defects-; shrinkage-and-swelling-of-wood
GE: USA-
PT: Numbered-Whole
CAB: OF Forestry-Abstracts 1977 038-01033
UD: 9110
AN: F334817
DC: ODC836

517 of 788
TI: Standardization.
SO: Bulletin-d'Informations-Techniques,-Centre-Technique-du-Bois. 1976., No. 77, 39-42; PR.
PY: 1976
LA: French
AB: Contains summaries of work in progress on various projects, including the text of a draft terminology (in French) defining methods of producing ornamental decorations in furniture manufacture (hand carving, marquetry etc.), and also lists new standards relevant to wood and wood based materials published in France and 10 other countries or by ISO. Similar surveys appear from time to time in this bulletin.
DE: wood-; technology-; general-; furniture-and-furniture-making; terminology-; French-; marquetry-; carving-
GE: France-
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1977 038-01931
UD: 9110
AN: F342933
DC: ODC8; ODC836

518 of 788
TI: A simple method of evaluating the strength of wood in the plane stressed state.
AU: Pozdnyakov,-AA
AD: Inst. Inzhenerov Zheleznodorozh. Transport, Rostov, USSR.
SO: Lesnoi-Zhurnal. 1976., No. 3, 72-76; 11 ref.
PY: 1976
LA: Russian
AB: A theoretical analysis is made of the plane stressed state of wooden elements in furniture and building structures, considering wood as an anisotropic material (in accordance with the hypotheses of E.K. Ashkenazi and K.V. Zakharov for evaluating the strength of wood). A simple criterion is proposed for evaluating the strength of wood in the plane stressed state, viz. that the normal stresses

at fracture areas should not exceed the strength limits in the linear stressed state in directions perpendicular to these areas.
DE: strength-of-wood; theory-; furniture-and-furniture-making; buildings-; design-aspects
GE: USSR-
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1977 038-02433
UD: 9110
AN: F360133
DC: ODC81270

519 of 788
TI: Papers presented to the Symposium on Wood as a Competitive and Versatile Material. Volume I.
AU: Agate,-GJ; Booth,-LG; Becker,-M; Gaisbacker,-I; Runeberg,-L; Zagoni,-I; Sampaio,-JS; Schulz,-H; Paulitsch,-M; Sickenberger,-H; Harvey,-JD; Norrish,-JM; Hall,-AB; Hochart,-B; Niculescu,-A; Garasevich,-GI; Lewis,-S; Ollmann,-H; Hobbs,-WL
SO: Timber-Bulletin-for-Europe. 1972., 24: Suppl. 5, xi + 221 pp.
PY: 1972
LA: English, French, Russian
LS: English, French, Russian
AB: Contains 20 papers, in English unless stated otherwise, under three headings. [1] Review of trends in consumption of forest products in relation to global consumption trends: an introductory paper by the ECE/FAO Secretariat; Wood grows on trees (G.J. Agate); Higher professional education in timber and its influence on the choice of timber as a building material (L.G. Booth); The influence of the structure of the wood-processing industry on the competitiveness of its products (M. Becker); Trends in timber consumption in relation to new materials in Czechoslovakia (I. Gaisbacher; Ru; 7 ref.); Wood and plastics, a general review (L. Runeberg); The results achieved in the substitution of conifers by different kinds of domestic hardwoods (I. Zagoni; Fr); Limitations on capacity to produce cork and substitutes; complementarity and competition in the stopper industry in Portugal. The special case of agglomerated cork discs (J.S. Sampaio; Fr; 11 ref.); The future chances of wood-based products compared with those of competing materials (H. Schulz and M. Paulitsch). [II] Packaging, containers and pallets: The development of the use of wood for packaging (UNIDO Secretariat) [based on a study by B. Hochart on the role of wood as a packaging material in developing countries]; Is there a future for wood, the oldest packing material? (H. Sickenberger); Current trends in the use of sawnwood and wood-based panels in packaging and pallets (J.D. Harvey; 3 ref.); Wood and plywood, the economic and preferred materials for container construction (J.M. Norrish); The development of plywood products for use in ISO International Freight Containers (A.B. Hall; 11 ref.). [III] Other end-uses, including furniture, mining, sleepers, etc.: Progress achieved in the field of substitution of solid wood by wood-based panels in furniture production (A. Niculescu; Fr); Substitution of timber by other materials in the production of furniture (G.I. Garasevich; Ru); Study on the use of timber underground in mines

(ECE/FAO Secretariat) and The utilization of timber in the modern British coal-mining industry (S. Lewis) [these two contributions are only summaries of papers published in full in Suppl. 2 - cf. FA 34, 5430]; The future of wooden railway sleepers (H. Ollmann); and Wood construction for marine craft (W.L. Hobbs).
DE: wood-; conferences-; symposia-; vs.-other-materials; education-and-training; products-; general-; wood-technology; timber-trade; wood-supply-and-demand; buildings-; materials-; Czechoslovakia-; cork-; Portugal-; minor-forest-products; packing-containers; pallets-; plywood-; uses-; furniture-and-furniture-making; mine-timbers; sleepers-; boats-and-ships; wood-products-in
PT: Numbered-Whole
CAB: 0F Forestry-Abstracts 1977 038-03759
UD: 9110
AN: F367480
DC: ODC8; ODC971
SM: P

520 of 788
TI: The development of the properties of particle board for furniture construction.
AU: Kehr,-E; Jensen,-U
AD: Forschungsinstitut fur Holztechnologie, Dresden, German Democratic Republic.
SO: Holztechnologie. 1975., 16: 3, 161-170; 31 ref. PR.
PY: 1975
LA: German
LS: English, Russian
AB: Developments in the period 1970-74 include increasing production of boards with fine-structured surface layers, boards of higher density and higher tensile strength perpendicular to theplane of the board. Developments in the longer period 1950-74 were more extensive and aredescribed under the headings density, elasto-mechanical properties, swelling in thickness, andsurface roughness.
DE: furniture-and-furniture-making; particle-board; physical-and-mechanical-properties; uses-
GE: German-Democratic-Republic
PT: Numbered-Part
CAB: 0F Forestry-Abstracts 1977 038-03156
UD: 9110
AN: F371623
DC: ODC8622; ODC836

521 of 788
TI: Particleboard for furniture making.
AU: Hindley,-HR
SO: 1976, 49 pp.; PR. Stevenage, Herts, UK; Furniture Industry Research Association.
PY: 1976
LA: English

AB: Particleboard is discussed under a number of headings, including: production, properties, quality control, handling and storage, and usage in the furniture making industry. A list of international standards applicable to particleboard is included, and also information on UK buyers' guides and trade associations.
DE: particle-board; uses-; standards-; furniture-and-furniture-making
PT: Unnumbered-Whole
AV: pounds-sterling 7
CAB: 0F Forestry-Abstracts 1977 038-05443
UD: 9110
AN: F387309
DC: ODC836; ODC862

522 of 788
TI: Guide to the choice of wood for furniture making.
OT: Guide pour le choix des bois en ebenisterie.
SO: 1975, 98 pp.; PR. Paris, France; Centre Technique du Bois.
PY: 1975
LA: French
AB: A simple guide, in the form of tables, to all species available on the French market that are suitable for furniture making. The lists give information on colour and appearance, the strength properties most relevant to furniture manufacture, seasoning and woodworking properties, and suggested uses.
DE: France-; woodworking-; timbers-; furniture-and-furniture-making; wood-; general-information-on-timbers
PT: Unnumbered-Whole
CAB: 0F Forestry-Abstracts 1977 038-05445
UD: 9110
AN: F392736
DC: ODC836

523 of 788
TI: Development of the French furniture industry.
SO: Revue-du-Bois-et-de-ses-Applications. 1975., No. 3, 51-54; BLL.
PY: 1975
LA: French
AB: A statistical review of the French bed-, chair- and general furniture-making industry, showing the different types of business, the materials used (wood, cane, tubular steel etc.) and the economic importance of different sectors of the industry. The recent trend for individual firms to join commercial groups or chains, in order to facilitate marketing, is stressed.
DE: France-; woodworking-; marketing-; furniture-and-furniture-making
PT: Numbered-Part
CAB: 0F Forestry-Abstracts 1976 037-00628
UD: 9110
AN: F229592
DC: ODC836; ODC71

524 of 788
TI: Reasonable design stresses for woods used in furniture.
AU: Eckelman,-CA
SO: Research-Bulletin,-Agricultural-Experiment-Station,-Purdue-University. 1974., No.916, 7 pp.; 2 ref.
PY: 1974
LA: English
AB: Reports a study to obtain reliable estimates of the bending-strength characteristics of 911 samples (800 samples of 24 hardwood species and 111 Southern Pine samples) of furniture parts. Results (tabulated) indicate that reasonable values of bending stress for wood used for furniture in the USA may be obtained from average strength values given for the species in the USDA Wood Handbook.
DE: strength-of-wood; bending-; furniture-and-furniture-making
PT: Numbered-Whole
CAB: OF Forestry-Abstracts 1976 037-01943
UD: 9110
AN: F266552
DC: ODC836; ODC8127

525 of 788
TI: Constructive and static properties of wood-based fibreboards of medium density.
AU: Bachmann,-G
SO: Holztechnologie. 1975., 16: 2, 85-89; PR.
PY: 1975
LA: German
LS: English, Russian
AB: The mechanical and swelling properties of fibreboard from three sources were compared with the requirements of standards and with the properties of three-layer particle boards, with particular reference to furniture construction. The properties investigated included stability, screw-holding capacity, strength of joints and of corner joints, distance between bearers in flooring and free length of side walls.
DE: fibreboard-; physical-and-mechanical-properties; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1976 037-03304
UD: 9110
AN: F279964
DC: ODC8623; ODC836

526 of 788
TI: Some tree species from Vietnam having wood valuable for the Bulgarian woodworking industry.
AU: Stefanov,-B; Naidenova,-Ts.
SO: Gorsko-Stopanstvo. 1975., 31: 10; 11, 39-43; 48-51.
PY: 1975

LA: Bulgarian
AB: Gives brief notes on the wood of 39 species of N. Vietnamese hardwoods of interest for Bulgaria, especially in the furniture industry. The species are: Artocarpus hirsutus, Santalum album, Manglietia glauca, Michelia champaca, Cinnamomum camphora, C. zeylanicum, Albizia lebbek, A. procera, Bauhinia purpurea, Cassia fistula, Dalbergia bariensis, Dialium cochinchinense, Pahudia cochinchinensis, Xylia xylocarpa, Chickrassia [Chukrasia] tabularis, Melia azedarach, Sandoricum indicum, Toona ciliata, Pometia pinnata, Thespesia populnea, Tarrietia javanica, T. cochinchinensis, Calophyllum inophyllum, Garcinia mangostana, Mesua ferrea, Dipterocarpus artocarpifolius, Hopea odorata, H. pierrei, Shorea obtusa, Lagerstroemia flos-reginae, Barringtonia acutangula, Terminalia catappa, T. chebula, Mimusops elengi, Alstonia scholaris, Gmelina arborea, Tectona grandis, Stereospermum chelonoides, and Anthocephalus cadamba.
DE: Vietnam-; timbers-; Bulgaria-; woodworking-; wood-; general-information-on-timbers; Tectona-grandis; general-information; furniture-; Anthocephalus-cadamba; Stereospermum-chelonoides; Gmelina-arborea; Alstonia-scholaris; Mimusops-elengi; Artocarpus-hirsutus; Santalum-album; Manglietia-glauca; Michelia-champaca; Cinnamomum-camphora; Cinnamomum-zeylanicum; Albizia-lebbek; Albizia-procera; Bauhinia-purpurea; Cassia-fistula; Dalbergia-bariensis; Dialium-cochinchinense; Pahudia-cochinchinensis; Xylia-xylocarpa; Chukrasia-tabularis; Melia-azedarach; Sandoricum-indicum; Toona-ciliata; Pometia-pinnata; Thespesia-populnea; Tarrietia-javanica; Tarrietia-cochinchinensis; Calophyllum-inophyllum; Garcinia-mangostana; Mesua-ferrea; Dipterocarpus-artocarpifolius; Hopea-odorata; Hopea-pierrei; Shorea-obtusa; Lagerstroemia-flos-reginae; Barringtonia-acutangula; Terminalia-catappa; Terminalia-chebula
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1976 037-05290
UD: 9110
AN: F296842
DC: ODC810
SM: P

527 of 788
TI: The assortment of bent-and-glued profiles [for articles made] from veneer.
AU: Izraelit,-AB
SO: Lesnoi-Zhurnal. 1975., No. 3, 64-69; 3 ref.
PY: 1975
LA: Russian
AB: A theoretical analysis is made to optimize the utilization of material in bent-and-glued veneer items as used in the furniture industry. A range of possible types of bent-and-glued items is presented, based mainly on trapezoidal and oblique Z-shaped profiles. Formulae are tabulated for determining the geometrical characteristics of the proposed set of profiles, and also their loads in bending.

DE: furniture-and-furniture-making; bentwood-; composite-; veneer-; uses-and-products
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1976 037-04789
UD: 9110
AN: F297539
DC: ODC836; ODC8322

528 of 788
TI: The machinability of chipboard.
AU: Sparkes,-AJ
SO: FIRA-Bulletin. 1974., 14: 47, 8; PR.
PY: 1974
LA: English
AB: Presents an introductory paper on the problems encountered by furniture manufacturers when machining particle board, especially the excessive tool wear resulting from high grit content (possibly derived from bark, or introduced during logging). Typical data on grit contents in particle board are included: most samples exceeded the maximum permissible content of 0.05% that has been suggested for fibreboard.
DE: particle-board; working-; furniture-and-furniture-making; woodworking-; fundamental-cutting-studies
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1976 037-04838
UD: 9110
AN: F298322
DC: ODC8622084; ODC836

529 of 788
TI: Furniture and joinery industries for developing countries.
AU: Paavola,-P; Meriluoto,-J; Kaila,-A; Liusvaara,-A; Jantunen,-J; Bistrom,-PA; Haakana,-J; Akkanen,-A; Winnlert,-E; Sirvio,-E; Harjula,-M; Lindberg,-K
SO: \UNIDO-Report\. 1973., No. ID/108, 154 + 235 + 64 pp.; many ref. LTP. Vienna, Austria; United Nations Industrial Development Organization.
PY: 1973
LA: English
AB: A series of articles based on lectures given at two seminars in Finland in 1971 and 1972. Part 1 - Raw material inputs includes: Solid wood as raw material for the furniture and joinery industries (P. Paavola; 37 ref.); Veneer, plywood and other veneer-based boards (J. Meriluoto); Particle boards (J. Meriluoto; 5 ref.); The use of fibre building board in the joineryindustry (A. Kaila); and The use of glues and other adhesives in furniture and joinery (J.Meriluoto). Part 2 - Processing technology includes: Technical product design (P. Paavola);Project planning in the furniture and joinery industries (A. Liusvaara); Plant layout (P.Paavola); Furniture industry technology (P. Paavola); Joinery industry technology (J.Jantunen); The surface finishing of wood and wooden products (P.A. Bistrom); Low-costautomation in the woodworking

industries (J. Haakana); Maintenance of machines and equipment(A. Akkanen); and Woodworking machine tools and their maintenance (E. Winnlert). Part 3 -Management considerations comprises: Quality control (J. Meriluoto; 11 ref.); Productionmanagement (E. Sirvio); Marketing and export trade (M. Harjula; 15 ref.) and Safety at workand occupational hazards (K. Lindberg).
DE: furniture-and-furniture-making; joinery-; woodworking-; automation-; factory-organization-and-lay-out; machines-and-tools; plywood-; uses-; particle-board; fibreboard-; veneer-; glues-and-gluing; finishes-and-finishing; accidents-and-their-prevention; conferences-; symposia-etc.; wood-technology
PT: Numbered-Whole
CAB: OF Forestry-Abstracts 1976 037-05353
UD: 9110
AN: F300610
DC: ODC83; ODC971; ODC8331; ODC836

530 of 788
TI: Sawing pattern effect on warp loss of Hard Maple dimension stock.
AU: Pnevmaticos,-SM; Flann,-IB; Whittaker,-J
SO: Forest-Products-Journal. 1975., 25: 12, 43-48; 7 ref.
PY: 1975
LA: English
AB: [Cf. FA 33, 6919] Describes a study to determine the effect of interactions between sawing pattern (through-and-through sawing, and sawing around) and warping on the yield of furniture components from 15 Acer saccharum logs in the lower part of the F-2 quality range. Results (tabulated) suggest that there was no significant difference between the sawing patterns tested in terms of losses due to warping. The yield of usable cuttings from logs sawn through-and-through was at least equal to that from logs sawn around. Losses due to warping varied from 18 to 34%, boards sawn from the centre of logs showing the highest losses. Further research is recommended.
DE: Acer-saccharum; wood-; sawmill-studies; furniture-; sawmilling-; log-breakdown-methods; outturn-; recovery-; sawing-quality; defects-; defects-in-wood; warping-; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1976 037-06366
UD: 9110
AN: F308344
DC: ODC8221; ODC852
SM: P

531 of 788
TI: Manufacturing interior furniture parts [from US hardwood lumber]: a new look at an old problem.
AU: Lucas,-EL; Araman,-PA

USDA-Forest-Service-Research-Paper,-Northeastern-Forest-Experimen
t-Station. 1975., No. NE-334, 6 pp.; 1 ref.
PY: 1975
LA: English
AB: Compares the yields of interior-furniture parts from four manufacturing sequences. In three of the sequences, ripping by gang-saw was the first step; in the fourth the lumber was cross-cut first. Though the grade of lumber used affects the % yield of parts, the manufacturing sequence does not, but it does affect the cost per part. The selection of the best method must be based on factors other than the yield of parts.
DE: furniture-and-furniture-making; sawmilling-; outturn-; recovery-; cutting-programmes
PT: Numbered-Whole
CAB: OF Forestry-Abstracts 1976 037-06400
UD: 9110
AN: F311337
DC: ODC836; ODC822; ODC8321

532 of 788
TI: An automated rough mill for the production of interior furniture parts [from US hardwoods].
AU: Araman,-PA; Lucas,-EL
S O :
USDA-Forest-Service-Research-Paper-Northeastern-Forest-Experiment
-Station. 1975., No. NE-335, 5 pp.; 1 ref.
PY: 1975
LA: English
DE: furniture-and-furniture-making; sawmilling-; accounts-of-particular-mills; operating-systems-etc.; automation-
PT: Numbered-Whole
CAB: OF Forestry-Abstracts 1976 037-06401
UD: 9110
AN: F311345
DC: ODC836; ODC8321

533 of 788
TI: Modern furniture manufacture. Part 1. State of the furniture industry. Particle boards: laminating and coating with solid and liquid materials. Part 2. Cutting to size and trimming of boards, finishing of edges, folding, boring, packing, auxiliary equipment.
AU: Soine,-H
SO: Holz-als-Roh--und-Werkstoff. 1973., 31: 4 ; 5, 145-156; 181-197; PR.
PY: 1973
LA: German
LS: English
AB: (1) Reviews probable future trends in the furniture industry and developments in the use of particle board, and describes technical methods for coating and trimming of boards, synthetic resin films and imitation veneers, application of plastic laminates and of plastic foils from the roll, covering of edges, and coating

with lacquers. (2) Surveys further processing operations and describes and illustrates up-to-date machines and equipment used for the operations listed in the title.
DE: furniture-and-furniture-making; particle-board; treatments-; uses-; working-
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1975 036-01192
UD: 9110
AN: F147340
DC: ODC836; ODC862

534 of 788
TI: Market conduct in the wood household furniture industry.
OT: [Abstract].
AU: Schick,-BA
SO: Dissertation-Abstracts-International,-B. 1973., 33: 10, 4609; ORS.
PY: 1973
LA: English
AB: Presents an analysis based primarily on personal interviews with manufacturers, describing the present structure of the industry, and differences in the behaviour of manufacturers in New York, New England and the South. Factors that have led to these differences are discussed, and predictions are made concerning future changes and their effects on the conduct of theindustry.
DE: furniture-and-furniture-making; USA-; woodworking-
PT: Numbered-Part
AV: 73-8915
CAB: OF Forestry-Abstracts 1975 036-00438
UD: 9110
AN: F166671
DC: ODC836; ODC71

535 of 788
TI: Converting hardwood logs.
AU: Flann,-IB
SO: Canadian-Forest-Industries. 1974., 94: 9, 33-38; 9 ref. BLL.
PY: 1974
LA: English
AB: Summarizes the findings of ten years' research by the Forest Products Laboratory., Ottawa, on the conversion of hardwood trees to furniture components, with particular emphasis on sawing patterns, log grades, and the merits of long vs. short logs.
DE: sawmilling-; effects-of-log-size; effects-of-log-grade; outturn-; recovery-; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1975 036-01699
UD: 9110
AN: F190963
DC: ODC8221; ODC836; ODC853

536 of 788
TI: Modification of wood with ammonia.
AU: Berzin'sh,-GVBerzins,-G; Berzins,-G
SO: Latvijas-PSR-Zinatnu-Akademijas-Vestis. 1973., No. 11, 63-69; 33 ref. CGB.
PY: 1973
LA: Russian
LS: English
AB: A review of literature (much of it patents) on the modification of wood with ammonia, since the first proposals in the 1920s, and with special reference to more recent work done in Soviet Latvia. The material produced by treating wood with ammonia, compressing it and then drying is called Lignamon. Lignamon is being manufactured in Latvia on a commercial or semi-commercial scale for the production of parquet, various bent-and-glued veneer products, bows and sounding boards of musical instruments, certain types of furniture, etc.
DE: chemical-modification-of-wood-etc.; improved-wood; compressed-; bentwood-; floors-; musical-instruments; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1975 036-05919
UD: 9110
AN: F222105
DC: ODC827; ODC842

537 of 788
TI: The quantitative and qualitative yield of Beech blanks for manufacturing bentwood furniture.
AU: Cegiel,-E; Hruzik,-G
SO: Drevo. 1974., 29: 9, 269-271 + smries.; 5 ref. PR.
PY: 1974
LA: Slovakian
LS: Russian, German, English
AB: An analysis of data on the production of standard-sized blanks, comparing manufacturing costs for different lumber grades and different blank dimensions.
DE: Fagus-sylvatica; wood-; furniture-; bentwood-; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1975 036-05208
UD: 9110
AN: F224469
DC: ODC836; ODC827

538 of 788
TI: Spanish furniture and the French market.
SO: Revue-du-Bois-et-de-ses-Applications. 1975., No. 3, 56-57; BLL.
PY: 1975
LA: French
AB: Illustrates the steep rise in recent years in the value of world exports of chairs and other furniture from Spain and in the

value of imports of these products into France, and notes the interest shown by Spanish manufacturers in consolidating and extending their contacts with French firms.
DE: Spain-; woodworking-; marketing-; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1975 036-06617
UD: 9110
AN: F229584
DC: ODC836; ODC72

539 of 788
TI: White Birch bolts as a source of furniture components.
AU: Pnevmaticos,-SM
SO: Canadian-Forest-Industries. 1975., 95: 2, 62 . . . 66; 4 ref. BLL.
PY: 1975
LA: English
AB: Provides estimates of the expected yield of furniture components from each of three grades of 8-ft Betula papyrifera bolts in comparison with the yield from 12-ft logs of Hard Maple (Acer spp.). The raw material cost per net bd ft of dimension stock produced was appreciably higher when the upper grades of lumber were used instead of the lower grades.
DE: Betula-papyrifera; wood-; furniture-; logs-; grading-; sawmilling-; outturn-; recovery-; effects-of-log-grade; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1975 036-06618
UD: 9110
AN: F230876
DC: ODC836; ODC525

540 of 788
TI: Workshop on wood processing for developing countries, Vienna, Austria, 1975.
AU: Stokes,-JG; Peck,-TJ; Reinhardt,-J; Heilborn,-GP; Eisner,-K; Tack,-PE; Haas,-D
SO: \UNIDO-Report\. 1974/1975., No.ID/WG.200, 256 pp.; 17 ref. Limited distribution, TRADA. Vienna, Austria; United Nations Industrial Development Organization.
PY: 1974
LA: English
AB: A collection of serially sub-numbered preprints, giving details of the processes or materials available, and discussing the choice of the most suitable technology for countries with limited capital and experience (or with special technical problems), including: Wooden load bearing building component production in developing countries: an analysis of alternatives (J.G. Stokes) [structural wall panels, composite beams, etc.]; A basis for establishing criteria for the choice of processes and equipment in the sawmilling sector (T.J. Peck); Adhesives for wood (J. Reinhardt; 9

ref.); Plywood, veneer and blockboard production in developing countries: an analysis of alternatives (G.P. Heilborn; 8 ref.); Fibreboard production in development countries: an analysis of alternatives (K. Eisner); Particle board production for developing countries (P.E. Tack); and Production in developing countries of wooden case goods furniture (flatboard furniture): an analysis of alternatives (D. Haas). [Cf. FA 31, 7313]
DE: buildings-; structural-components; beams-; composite-; sawmilling-; glues-and-gluing; plywood-; manufacture-; veneer-; blockboard-; fibreboard-; particle-board; furniture-and-furniture-making; forest-industry; planning-; organization-; woodworking-
PT: Numbered-Whole
CAB: OF Forestry-Abstracts 1975 036-07986
UD: 9110
AN: F255801
DC: ODC8

541 of 788
TI: Influence of the quality of Beech sawlogs on sawmilling production in relation to furniture blanks.
AU: Palovic,-J; Krutel,-F
SO: Zbornik-Vedeckych-Prac-Drevarskej-Falculty-VSLD-vo-Zvolene. 1969, publ. 1970., 41-73; 9 ref.
PY: 1969
LA: Slovakian
LS: Russian, German
AB: Analyses the relations between log diameter, false heart, knottiness and sweep and the surface-area yield and quality of lumber that can be used for the production of blanks for bentwood furniture, the total yield of blanks, and the yield of blanks of particular lengths.
DE: Fagus-sylvatica; wood-; defects-; sawmill-studies; defects-in-wood; effect-on-lumber-recovery; sawmilling-; outturn-; recovery-; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1974 035-00339
UD: 9110
AN: F074793
DC: ODC83215; ODC836; ODC852

542 of 788
TI: Possibilities of plant modification in the bending of chair frames.
AU: Filipovici,-J; Mihai,-D; Mihai,-S
SO: Buletinul-Universitatii-fin-Brasov,-B. 1972., 14: 285-293; 11 ref.
PY: 1972
LA: Romanian
LS: French
AB: Summarizes the theory of, and preliminary research on, the application of ultrasonic fields in the bending of wood, and

discusses some practical aspects of the further development of this process [Cf. FA 33, 1368, 1565.].
DE: bending-; wood-; ultrasonic-treatments; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1974 035-01936
UD: 9110
AN: F086732
DC: ODC827; ODC836

543 of 788
TI: Relations between wood and plastics in the manufacture of furniture.
AU: Svancara,-F
SO: Drevo. 1973., 28: 3, 74-77; 16 ref. PR.
PY: 1973
LA: Czech
LS: Russian, German, English
AB: A survey of figures for several industrial countries on the rising production of plastic materials and their use in the furniture industry as substitutes for wood, in the light of the world timber shortage. Functional, aesthetic and economic advantages and disadvantages are discussed.
DE: plastics-; furniture-and-furniture-making; wood-; vs.-other-materials
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1974 035-03301
UD: 9110
AN: F113640
DC: ODC88; ODC836

544 of 788
TI: Veneers : natural and semi-natural.
AU: Smith,-RNA
SO: Revue-du-Bois-et-de-ses-Applications. 1973., 28: 8/9, 49-52; PR.
PY: 1973
LA: French
AB: Traces the recent history of furniture-making in relation to the increasing scarcity and price of veneer wood, and describes recent advances in veneer-producton technique in Britain designed to reduce conversion losses and improve quality of the veneer produced.
DE: veneer-; manufacture-; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1974 035-03952
UD: 9110
AN: F118332
DC: ODC832281; ODC835

545 of 788

TI: Furniture timbers of New South Wales.
SO: Technical-Publication,-Forestry-Commission-of-New-South-Wales.
LA: English
AB: Gives two tables of species (1) for use in furniture, grouped according to colour and noting the ease of working, and (2) for use in turnery, grouped according to the ease of working and noting the colour of the heartwood. The tables include, for each species: seasoned weight (lb/ft3), susceptibility of the sapwood to Lyctus borers, the district of growth and miscellaneous notes.
DE: Australia-; NSW-; timbers-; furniture-and-furniture-making; turnery-
PT: Numbered-Whole
CAB: OF Forestry-Abstracts 1974 035-03963
UD: 9110
AN: F126181
DC: ODC836; ODC8128

546 of 788
TI: New methods of determining the strength of bent-and-glued items.
AU: Shapiro,-MD; Izraelit,-AB; Chaika,-NK
SO: Derevoobrabatyvayushchaya-Promyshlennost'. 1974., No. 2, 8-10; 2 ref. NLL.
PY: 1974
LA: Russian
AB: Gives an illustrated description of the design of a new test rig developed in the USSR for testing bent-and-glued furniture components in pure bending. The test rig was developed on the basis of previous theoretical studies of the stress state in bent-and-glued items [see FA 34, 1296]. Details are also given of a method of determining the strength of the glue joint in the inserts in the angles of bent-and-glued chair frames.
DE: strength-testing; joints-and-jointed-assemblies; bentwood-; strength-; joints-; glued-; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1974 035-05555
UD: 9110
AN: F139496
DC: ODC827; ODC8127; ODC8247; ODC8322

547 of 788
TI: Evaluating the quality of bent-and-glued items.
AU: Izraelit,-AB
SO: Lesnoi-Zhurnal. 1973., 16: 5, 65-70; 2 ref.
PY: 1973
LA: Russian
AB: A theoretical analysis of the testing of curved (bent-and-glued) furniture elements, and the evaluation of their quality. An illustrated description is given of a simple rig developed for testing bent-and-glued items in bending. This rig makes it possible to produce pure bending deformation (in flexure or in straightening) on any testing machine, by creating two

opposed moments as an axial tensile force is applied.
DE: bentwood-; composite-; furniture-and-furniture-making; strength-of-wood; bending-; strength-testing; mechanical-methods
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1974 035-06458
UD: 9110
AN: F15147X
DC: ODC827; ODC8127; ODC836

548 of 788
TI: A rotating press for the furniture and door industries.
SO: Holz-Zentralblatt. 1972., 98: 87, 1241.
PY: 1972
LA: German
AB: The chief feature of this highly automated rotary press is the star-shaped arrangement of six 2-tier presses, which are arranged in such a manner that one of them is always in a position for (automatic) loading and unloading, while the others, which are actively pressing, are out of the way. It is thus possible to combine long press times with high performance. Manufacturer: Fama, Bolzano, Italy.
DE: doors-; furniture-and-furniture-making; glues-and-gluing; equipment-
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1973 034-05423
UD: 9110
AN: F010515
DC: ODC82486; ODC8331; ODC836

549 of 788
TI: Some probable future developments in wood adhesives and gluing processes.
AU: Bird,-F; Straeten,-E-van-der
SO: Journal-of-the-Institute-of-Wood-Science. 1971., 5: 5, 41-48; 15 ref.
PY: 1971
LA: English
AB: Considers probable developments in adhesives and gluing processes up to 1975-1977 in relation to plywood and chipboard manufacture both in and outside Britain, and to the manufacture of furniture, joinery etc. in Britain.
DE: glues-and-gluing; particle-board; manufacture-; plywood-; furniture-and-furniture-making; joinery-
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1973 034-01916
UD: 9110
AN: F021703
DC: ODC8248
SM: P

550 of 788

TI: The characteristics of some tropical woods, and their bearing on finish.
AU: Roth-Meyer,-M
SO: Bois-et-Forets-des-Tropiques. 1972., No. 143, 45-63; 8 ref.
PY: 1972
LA: French
LS: Spanish, English
AB: The main characteristics and uses of the principal tropical timbers used in France for furniture-making, internal and external woodwork, and other special purposes are tabulated, and possible interactions between these timbers and the various types of surface finish that maybe used on them are described. Changes that may occur in the appearance, strength and other properties of the timbers, mostly attributable to the chemical constituents or structure of the wood, are discussed, and some solutions to the problems encountered are suggested.
DE: tropical-timbers; finishes-and-finishing; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1973 034-02482
UD: 9110
AN: F027922
DC: ODC8291; ODC811; ODC813
SM: P

551 of 788
TI: Geometrical parameters of rigid press-moulds for the production of bent-and-glued furniture units.
AU: Dyachun,-ZI
SO: Lesnoi-Zhurnal. 1971., 14: 6, 147-149; 1 ref.
PY: 1971
LA: Russian
AB: Describes a method of calculating the geometrical parameters of the moulds so as to achieve uniform compression of the workpiece over its profile.
DE: bending-; wood-; furniture-and-furniture-making
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1973 034-02481
UD: 9110
AN: F031245
DC: ODC8271088; ODC8322; ODC836

552 of 788
TI: A method to analyze rough mill productivity.
AU: Hallett,-RM
SO: Forest-Products-Journal. 1972., 22: 11, 22-27; 26 ref.
PY: 1972
LA: English
AB: Reports a work study in several furniture factories in E. Canada. Costs and yields of cross-cutting hardwood lumber and rip-sawing it into rough dimension stock were significantly dependent on the length of cuttings and the mean width of clear

stock produced. The resulting cost formulae varied between factories. Since raw-material costs were high compared with processing costs, it is concluded that efforts should be made to increase yield rather than productivity.
DE: woodworking-; economics-; furniture-and-furniture-making; sawmilling-; re-sawing; edging-and-trimming
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1973 034-03662
UD: 9110
AN: F042700
DC: ODC83215; ODC836
SM: P

553 of 788
TI: A survey of carpenter shops in the city of Lagos.
AU: Enabor,-EE
SO: Research-Notes,-Department-of-Forestry,-Ibadan-University. 1971., 1: 1, 5-15 + 1 fig.; 5 ref.
PY: 1971
LA: English
AB: Describes a study of a stratified sample of 100 small furniture-making establishments to determine the average quantity of wood used by such enterprises, and the influence of such factors as labour, capital investment, volume of sales etc. upon wood consumption. The implications of the results for national development policy in Nigeria are discussed.
DE: furniture-and-furniture-making; Nigeria-; woodworking-
PT: Numbered-Part
CAB: OF Forestry-Abstracts 1973 034-03673
UD: 9110
AN: F043359
DC: ODC836

554 of 788
TI: A modern woodworking process: die-stamping.
AU: Raileanu,-V
SO: 1970, Industr. Lemn. 1970 21 (5), (173-6 + smries.). [Ro, fr, en, de, ru, 4 ref.].
PY: 1970
LA: English
AB: In connexion with the growing market for reproductions of period furniture, the relationbetween pressure perpendicular to grain and deformation was studied in wood of various Rumanianspecies. Woods with a wide range of plastic deformation, especially Birch and Ash in radialsections, were considered suitable for die-stamping. An industrial process using a heated diewas developed; this makes it possible to produce an Ash chair-head ornamented in relief in 2.5min compared with 3.2 hours by cutting.
DE: Betula-alba-s.l.-wood-improved-wood; Fraxinus-excelsior-wood-improved-wood; Furniture-&-furnituremaking; Improved-wood

CAB: OF Forestry-Abstracts 1972 033-01566
UD: 9110
AN: 3301566
DC: ODC8127; ODC827

555 of 788
TI: Plastics and the future of the furniture industry in the United States.
AU: Clark,-EL
SO: 1971, For. Prod. J. 1971 21 (8), (14-6).
PY: 1971
LA: English
AB: Discusses the increased use of various plastics in furniture (largely replacing wood byimitating it), its causes and effects.
DE: Furniture-&-furniture-making; Plastics-
CAB: OF Forestry-Abstracts 1972 033-01790
UD: 9110
AN: 3301790
DC: ODC836; ODC88

556 of 788
TI: Synthetic-resin-based adhesives for the manufacture of furniture utilized in tropical climates.
AU: Grigorescu,-V; Plugariu,-I; et-al.
SO: 1971, Stud. Cerc. Inst. Cerc. Industr. Lemn. 1971 28, (136-47 + 1 fig.). [Ro, en, de, 12 ref.].
PY: 1971
LA: English
AB: Reports tests in Rumania under simulated humid-tropical conditions on Beech strips glued with(a) Urelit C (urea-formaldehyde), (b) Fenoplac (phenol-formaldehyde), and (c) Dinox 040 epoxyadhesives, recommending (a) for interior furniture (with details of application).
DE: Fagus-sylvatica-wood-gluing; Furniture-&-furniture-making; Glues-trade-names/proprietary-glues
CAB: OF Forestry-Abstracts 1972 033-03336
UD: 9110
AN: 3303336
DC: ODC8248; ODC836

557 of 788
TI: Observations and reflections on a study tour of some furniture factories in Belgium.
SO: 1970, Can. Centre Tech. Bois No. 83, 1970. pp. 28.
PY: 1970
LA: French
DE: Belgium-furniture-manufacture
GE: Belgium-
CAB: OF Forestry-Abstracts 1972 033-03399
UD: 9110
AN: 3303399

DC: ODC836

558 of 788
TI: Substitution of plastics for wood-based materials in the furniture industry.
AU: Bohme,-P
SO: 1971, Holztechnol. 1971 12 (1), (23-8). [De, en, ru.].
PY: 1971
LA: English
AB: The functions of the surface and core materials in panel products are considered. Theadvantages of plastic laminates and resin-impregnated papers for the surface layers, and offoamed plastics for the cores, are described and illustrated by examples. Future trends in theuse of plastics in furniture are indicated. The problem is seen as one of finding the mostsuitable combinations of plastics with wood-based materials rather than one of completereplacement.
DE: Furniture-&-furniture-making
CAB: OF Forestry-Abstracts 1972 033-05347
UD: 9110
AN: 3305347
DC: ODC836; ODC88

559 of 788
TI: Finger joint feasibility in furniture production.
AU: Murphey,-WK; Rishel,-LE
SO: 1972, For. Prod. J. 1972 22 (2), (30-2). [10 ref.].
PY: 1972
LA: English
AB: Describes shear and tension tests on experimental finger joints (end-to-edge or end-to-endgrain, with varied length/pitch ratios) in Acer saccharum, and static bending, block-shear andtension tests on experimental finger joints (also end-to-edge or end-to-end grain, with variedfinger lengths) in laminates of Liriodendron tulipifera and Pinus strobus, and in L. tulipiferalaminates (with varied glue-line thickness). Preliminary results suggest that such joints canbe used as replacement for mortise-and-tenon and dowel joints. Glue-line thickness wasimportant for strength in static bending of end-to-end joints.
DE: Acer-saccharum-wood-working-properties; Furniture-&-furniture-making; Gluejoints-; Joints-; Liriodendron-tulipifera-wood-working-properties; Pinus-strobus-wood-workingproperties
CAB: OF Forestry-Abstracts 1972 033-06933
UD: 9110
AN: 3306933
DC: ODC8127; ODC8247; ODC836

560 of 788
TI: Second meeting of Section 9, Wood Market Research [of the Deutsche Gesellschaft furHolzforschung], in Freiburg i. Br.

AU: Mantel,-K-[Editor]
SO: 1968, Ber. Dtsch. Ges. holzforsch. No. 1/68. [1968?] pp. 56. [48 refs.].
PY: 1968
LA: German
AB: [Cf. F.A. 26 No. 2677.] Includes: Experience of obtaining information by questioning tradeassociations (C. Wiebecke; 19 refs.) [on the whole, trade associations were both ready to helpand informative]; Employing wood assortments for purposes other than their officiallydesignated use-a statistical problem (H. Ollmann; 13 refs.) [this practice distorts thestatistical picture, and sales statistics by type of purchaser, e.g. mines, pulpmills, arerecommended for market research purposes]; Problems of wood balances (K. Mobius; 4 refs.) [cf.F.A. 28 No. 1180]; The effect of substitutions on long-term forecasts of demand for wood (M.Becker; 18 refs.) ('substitution' includes not only the replacement of wood by other materials,but also the replacement of particular wood products by other wood products]; The use of woodin the building sector (K. Mantel); Building regulations of the W. German states asinstitutional factors of the market for wood (H. Gross; 4 refs.) [cf. F.A. 31 No. 7315]; Thestructure of the market for Spruce sawn timber in BadenWurttemberg and Nordrhein-Westfalen (A.Schreiber; 9 refs.); The structure of the market for Pine wood (E. Sliwa); Trends in the marketfor Beech wood (K. Mobius); Raw-material costs in pulp production in different countries (A.Schreiber; 14 refs.) [Germany is considered competitive with France and Sweden chiefly becauseit uses large quantities of waste wood; Swedish raw-material costs are generally lower]; Woodconsumption by the furniture industry [in W. Germany] (S. Hobohm); and Studies in the transportof wood ([K.] Mantel and K. Sowade).
DE: Fagus-sylvatica-inc.-F.-moesiaca-wood-marketing; Furniture-&-furniture-making; Marketing-; Piceaabies-wood-marketing; Pinus-sylvestris-wood-marketing; Roots-physiology; Timber-tradeconferences,-symposia,-reviews; Timber-trade-statistics; Transport,-logs-&-timber-studies-&research
CAB: OF Forestry-Abstracts 1971 032-01338
UD: 9110
AN: 3201338
DC: ODC71; ODC9454

561 of 788
TI: The stiffness matrix method of furniture frame analysis.
AU: Eckelman,-CA
SO: 1970, Wood Sci. 1970 2 (4), (221-31). [12 refs.].
PY: 1970
LA: English
AB: Discusses the necessary modifications to the basic stiffness method to cover the features offurniture design, including the stiffness coefficients of different types of members andconditions of jointing. The numerous equations involved are presented with a view todigital-computer analysis of nearly any type of furniture frame.
DE: Furniture-&-furniture-making; Joinery-

CAB: OF Forestry-Abstracts 1971 032-01588
UD: 9110
AN: 3201588
DC: ODC0015; ODC8127; ODC836

562 of 788
TI: The distribution of the furniture beetle, Anobium punctatum (De Geer) (Coleoptera: Anobiidae)in New South Wales.
AU: French,-JRJ
SO: 1968, Journal of the Australian Entomological Society, Brisbane 1968 7 (2), (115-22). [21 refs.].
PY: 1968
LA: English
AB: A. punctatum was found to be largely confined to the more humid and cooler coastal plains andthe eastern highlands of the Great Dividing Range. The areas where infestations cannot occurhave a mean temperature of the coldest month of 7.8-19.4 ° C., of the hottest month (morethan)23.9 ° , with 4-8 dry months and a mean annual rainfall of 6-36 in. Within the areaof distribution, its abundance and destructiveness could be correlated with Swain's ClimaticIndex. Severe attacks appeared to be confined to Podocarpus dacrydioides, Dacrydiumcupressinum, and woods of genera such as Abies, Pinus and Picea. Attacks on Douglas Fir wererare, and no attack was found on hardwoods. Damage was most frequent and severe in damp floortimbers, where infestation normally followed attacks by wood-rotting fungi. Oviposition wasmore frequent and larval development faster in decayed wood. The main emergence and flightperiod was between Oct. and late Dec. A. punctatum has not been found outdoors in Australia.
DE: Anobium-spp,-punctatum; Borers,-wood; Borers,-wood-attack-on,-&-damage-to-buildings,furniture; Borers,-wood-distribution; Borers,-wood-requirements-&-effects-of-moisture,-light,temperature; Dacrydium-cupressinum; Pseudotsuga-menziesii-wood-borers; Australia-Anobium-furniturebeetle,-distribution
GE: Australia-
CAB: OF Forestry-Abstracts 1971 032-01649
UD: 9110
AN: 3201649
DC: ODC8452

563 of 788
TI: Furniture manufacture. Techniques of assembly. Metal fittings. Advice on the use of particleboards.
SO: 1970, Cah. Centre Tech. Bois No. 81 1970 pp. 60.
PY: 1970
LA: French, Persian, Rumanian
AB: A revised and enlarged illustrated handbook incorporating material from Cahier No. 22 (1957)[cf. F.A. 19 No. 4899] and later publications in the series.
DE: Furniture-&-furniture-making
CAB: OF Forestry-Abstracts 1971 032-04987

UD: 9110
AN: 3204987
DC: ODC836; ODC862

564 of 788
TI: Machines for testing furniture.
AU: Haninec,-I
SO: 1970, [Publ.] St. Drev. Vyskum. Ustav No. 14 1970 pp. 32. [27 refs.].
PY: 1970
LA: Slovak
LS: English, Russian, German
AB: Gives illustrated descriptions of the function, performance and parameters of all the machinesfor testing the strength of furniture that have been developed at the State Forest ProductsResearch Institute in Bratislava.
DE: Acoustic-properties-of-wood-products,-laminates,-etc.; Furniture-&-furniture-making; Strengthtesting-bibliographies-reference-works-etc.
CAB: OF Forestry-Abstracts 1971 032-04988
UD: 9110
AN: 3204988
DC: ODC836

565 of 788
TI: Protecting log cabins, rustic work, and unseasoned wood from injurious insects in the easternUnited States.
AU: St.-George,-RA
SO: 1970, Farmers' Bulletin, U.S. Department of Agriculture, Washington, D.C. No. 2104 (rev.) 1970 pp.18. [4 refs.].
PY: 1970
LA: English
AB: An illustrated booklet describing the main classes of injurious insects (except termites) andmeasures for prevention (including preservative treatment) and for the control of existingattacks.
DE: Borers,-wood; Borers,-wood-attack-on,-&-damage-to-buildings,-furniture; Borers,-wood control; Preservative-treatment-of-'green'-wood-freshly-felled; Preservative-treatment-ofbuilding-bmbers
CAB: OF Forestry-Abstracts 1971 032-05036
UD: 9110
AN: 3205036
DC: ODC8452

566 of 788
TI: Bending strength and moment-rotation characteristics of two-pin moment-resisting dowel joints.
AU: Eckelman,-CA
SO: 1971, For. Prod. J. 1971 21 (3), (35-9). [4 refs.].
PY: 1971

LA: English
AB: Describes tests on glued double-dowel T-joints made with dowels and members of Acer saccharumand presents an equation for bending strength based on the withdrawal strength of a singledowel, the distances between the dowels, and the distance between dowel and rail edge; thisequation can be used for calculations of the strength of furniture frames. [Cf. F.A. 31 No.5331; 32 No. 1532.]
DE: Furniture-&-furniture-making; Joints-dowelled; Strength-of-wood-products-wooden-structures-&jointed-assemblies
CAB: OF Forestry-Abstracts 1971 032-06901
UD: 9110
AN: 3206901
DC: ODC8127; ODC8244

567 of 788
TI: Veneering.
OT: Faneroval'nye raboty.
AU: Bobikov,-PD; Ljuterstejn,-MB
SO: 1970, Izdatelstvo Vyssaja Skola, Moscow. 1970 pp. 240.
PY: 1970
LA: Russian, Norwegian, Latvian, Latvian
AB: A textbook dealing with all aspects of veneering in furniture manufacture.
DE: Furniture-&-furniture-making; Picea-glehnii; Veneers-bibliographies,-reference-worksetc.; Veneers-uses
CAB: OF Forestry-Abstracts 1971 032-06972
UD: 9110
AN: 3206972
DC: ODC8322; ODC836

568 of 788
TI: An operations research application to furniture round production.
AU: Fasick,-CA; Lawrence,-JD
SO: 1971, For. Prod. J. 1971 21 (4), (46-52).
PY: 1971
LA: English
AB: [Cf. F.A. 31 No. 5326.] Furniture 'rounds' [round blanks] are cut by a special round-sawingmachine from bolts 48 in. long sawn from 16-ft. hardwood logs; the residual cores or, in somecases, whole bolts are utilized by chipping. The authors describe a linear-programming analysisto determine the most suitable log sizes, bolt lengths and combinations of diameters for the'rounds', and the choice between making rounds or chips for a given bolt, in relation tomachine-time constraints and marketing requirements, to give maximum profits. Recommendationsare made that could increase net revenue per hour by ca. $250-270.
DE: Furniture-&-furniture-making; Sawmills-&-sawmilling-mill-studies; Sawmills-&-sawmilling-smalllongs-&-thinnings
CAB: OF Forestry-Abstracts 1971 032-06988
UD: 9110

AN: 3206988
DC: ODC0015; ODC822; ODC8321; ODC836

569 of 788
TI: The inspection and treatment of houses for damage by wood-boring insects.
AU: White,-MG
SO: 1970, Timberlab Papers, Princes Risborough No. 33, 1970 pp. 7.
PY: 1970
LA: Persian, Rumanian
AB: Outlines survey procedure and notes some diagnostic features of common wood-boring insectsfound in the U.K. Suitable insecticidal treatment is indicated.
DE: Borers,-wood-attack-on,-&-damage-to-buildings,-furniture; Buildings-&-their-constructiondeterioration,-presenation,-&-repair
CAB: OF Forestry-Abstracts 1971 032-07046
UD: 9110
AN: 3207046
DC: ODC833; ODC8452

570 of 788
TI: The common furniture beetle [Anobium punctatum].
SO: 1970, Tech. Note For. Prod. Res. Lab., Princes Risborough No. 47, 1970 pp. 14. [9 refs.] SupersedesLeafl. For. Prod. Res., Lond. No. 8 (rev.) 1969 [Cf. F.A. 31 No. 1552].
PY: 1970
LA: English
AB: Supersedes Leafl. For. Prod. Res., Lond. No. 8 (rev.) 1969 [cf. F.A. 31 No. 1552].
DE: Anobium-spp,-punctatum; Borers,-wood-attack-on,-&-damage-to-buildings,-furniture
CAB: OF Forestry-Abstracts 1971 032-07047
UD: 9110
AN: 3207047
DC: ODC8452

571 of 788
TI: The death-watch beetle [Xestobium rufovillosum.]
SO: 1970, Tech. Note For. Prod. Res. Lab., Princes Risborough No. 45, 1970 pp. 17. [6 refs.] [Cf. F.A. 29No. 6618.].
PY: 1970
LA: English
DE: Borers,-wood-attack-on,-&-damage-to-buildings,-furniture; Xestobium-spp.-rufovillosum
CAB: OF Forestry-Abstracts 1971 032-07048
UD: 9110
AN: 3207048
DC: ODC8452

572 of 788

TI: Furniture frame analysis and design.
AU: Eckelman,-CA
SO: 1969, Abstr. of thesis, in Dissert. Abstr. 1969 29B (8), (2710).
PY: 1969
LA: English
AB: [Cf. F.A. 29 No. 1458.] Discusses the development and verification of a computer-based methodfor the analytical design of furniture frames with elastically non-linear semi-rigid joints,and of a theoretical method of computing the momentrotation characteristics of two-pin,moment-resisting dowel joints. The validity of the analytical procedures developed was verifiedby tests of an experimental furniture frame.
DE: Furniture-&-furniture-making
CAB: OF Forestry-Abstracts 1970 031-01498
UD: 9110
AN: 3101498
DC: ODC836

573 of 788
TI: The common furniture beetle [Anobium punctatum].
SO: 1969, Leafl. For. Prod. Res. , Lond. No. 8 (rev.) 1969. pp. 11. [9 refs.] [Cf. F.A. 26 No. 2983.].
PY: 1969
LA: English
DE: Anobium-punctatum; Borers,-wood-attack-on,-&-damage-to-buildings-&-furniture
CAB: OF Forestry-Abstracts 1970 031-01552
UD: 9110
AN: 3101552
DC: ODC8452

574 of 788
TI: Converting dendrometer estimates of outside-bark stem diameters to wood diameters on majorSouthern Pines.
AU: Mesavage,-C
SO: 1969, U.S. For. Serv. Res. Note Sth. For. Exp. Sta. No. SO-93, 1969. pp. 4. [4 refs.].
PY: 1969
LA: English
AB: [Cf. F.A. 29 No. 6096.] Gives alternative formulae for three options in the STX-FORTRAN 4programme for processing tree measurements, where relative bark thickness is assumed (a) to bethe same at any point, (b) to decrease, and (c) to increase up the stem. The accuracy of volumeestimates for the formulae were tested on Pinus echinata, P. taeda, P. palustris and P.elliottii over a range of sizes. Option (b) was most accurate.
DE: Bark-dimensions-thickness,-volume,-bark-%,-etc.; Computers,-electronic-use-in-furnituremanufacture; Computers,-electronic-use-in-mensuration-&-management; Pinus-echinata-bark; Pinuselliottii-bark; Pinus-palustris-bark; Pinus-taeda-bark

CAB: OF Forestry-Abstracts 1970 031-03046
UD: 9110
AN: 3103046
DC: ODC523; ODC5243

575 of 788
TI: Synthetic resin glues for the furniture industry.
SO: 1969, CIBA (A.R.L.) Ltd., Duxford, Cam bridge. 1969. pp. 15.
PY: 1969
LA: English
AB: An illustrated instructional booklet.
DE: Furniture-&-furniture-making-use-of-glues; Glues-; Glues-types-synthetic-resins,-general; Gluesused-in-furniture
CAB: OF Forestry-Abstracts 1970 031-03413
UD: 9110
AN: 3103413
DC: ODC8248

576 of 788
TI: The buckling of furniture panels.
AU: Zigelboim-[zigel'bojm],-SN; Mikhalov-[mihajlov],-NA
SO: 1968, FIRA Transl. Furn. Ind. Res. Ass., Stevenage No. 104. [Transl. from Derev. Prom. 1968 17 (8),(6-7). [Cf. F.A. 30 No. 1413.] From abstr. in FIRA Bull. Furn. Ind. Res. Ass., Stevenage 1969 7(26), (59).].
PY: 1968
LA: English
DE: Furniture-&-furniture-making-use-of-veneer; Particle-board-dimensional-stability
CAB: OF Forestry-Abstracts 1970 031-03474
UD: 9110
AN: 3103474
DC: ODC0; ODC8322

577 of 788
TI: Successful kiln drying of White Pine for furniture stock.
AU: Boisselle,-HJ
SO: 1969, For. Prod. J. 1969 19 (3), (17-20).
PY: 1969
LA: English
AB: Examples are given of a commercial firm's efforts to minimize problems (e.g. brown stain andraised grain) in the drying of White Pine for high-quality furniture stock.
DE: Pinus-monticola-wood-drying; Seasoning-; Seasoning-of-furniture
CAB: OF Forestry-Abstracts 1970 031-03568
UD: 9110
AN: 3103568
DC: ODC847

578 of 788

TI: Methods of estimating stand volume.
AU: Gualdi,-V
SO: 1969, Ital. for. mont. 1969 24 (4), (199-204).
PY: 1969
LA: Italian
LS: French
AB: Considers the different methods of volume estimation and concludes that the complicatedmodel-tree methods are justified only in the (rather rare) cases of particularly valuablestands. For ordinary commercial sales of standing timber the use of single-entry local tariffsis recommended. The use of double-entry tables is limited to research undertakings.
DE: Computers,-electronic-use-in-furniture-manufacture; Computers,-electronic-use-in-mensuration-&management; Vitamins-determination-methods-compared
CAB: OF Forestry-Abstracts 1970 031-05009
UD: 9110
AN: 3105009
DC: ODC5243

579 of 788
TI: Engineering concepts of single-pin dowel joint design.
AU: Eckelman,-CA
SO: 1969, For. Prod. J. 1969 19 (12), (52-60). [7 refs.].
PY: 1969
LA: English
AB: Reports tensile tests on dowel joints, and develops design formulae for predicting the ultimatestrength of such joints, which govern the strength properties of furniture.
DE: Furniture-&-furniture-making; Joints-dowelled
CAB: OF Forestry-Abstracts 1970 031-05331
UD: 9110
AN: 3105331
DC: ODC8127; ODC8244; ODC836

580 of 788
TI: Methods used by firms to rationalize workshops for assembling furniture.]
SO: 1969, Cah. Centre Tech. Bois No. 80, 1969. pp. 56 + 1 fig.
PY: 1969
LA: French
AB: Discusses the benefits to be obtained by rationalization in furniture manufacture and describesin detail (with diagrams) the lay-out and organization of work in 10 French furniture factoriesmaking different types of product.
DE: Furniture-&-furniture-making; Woodworking,-cutting-mouldings,-chiselling,-boring,-turning,-etc. factories; France-furniture-factories
GE: France-
CAB: OF Forestry-Abstracts 1970 031-05394
UD: 9110
AN: 3105394

DC: ODC836

581 of 788
TI: Modern radio and television cabinet manufacture.
AU: Wrede,-H
SO: 1969, Holz Roh- u. Werkstoff 1969 27 (10), (357-66). [4 refs.].
PY: 1969
LA: German
LS: English
AB: Reviews developments in the manufacture of cabinets for radio, TV, etc., from the beginning ofproduction in the 1920's to the present time. Raw materials (solid wood, veneers and boardmaterials) and manufacturing processes are discussed, particularly from the point of view ofmanagement and organization.
DE: Furniture-&-furniture-making
CAB: OF Forestry-Abstracts 1970 031-05395
UD: 9110
AN: 3105395
DC: ODC836

582 of 788
TI: The introduction [into Germany] of Alphitobius laevigatus and Embiidae in termite-damagedornamental tables from India (Coleoptera: Tenebrionidae; Embioptera: Embiidae; Isoptera:Rhinotermitidae).
AU: Weidner,-H
SO: 1970, Anz. Schadlingsk. 1970 43 (2), (17-21). [22 refs.].
PY: 1970
LA: German
LS: English
AB: In inlaid wood (Dalbergia latifolia) tables from India Coptotermes heimi had tunnelled into thebone inlay, while below the tarsia living Embioptera were found in their webs. There were alsomany larval exuviae of Alphitobius laevigatus and some living adults.
DE: Alphitobius-laevigatus; Borers,-wood; Borers,-wood-attack-on,-&-damage-to-buildings-&furniture; Borers,-wood-attack-on,-&-damage-to-processed-wood-&-other-materials; Borers,-wood-distribution; Borers,-wood-exotic-species-&-their-introduction; Coptotermes-sp.-heimi; Dalbergialatifolia-; Embiidae-; Germany,-West-insects-in-imported-timbers
GE: Germany-; West-
CAB: OF Forestry-Abstracts 1970 031-05471
UD: 9110
AN: 3105471
DC: ODC8452; ODC8453

583 of 788
TI: Protecting hardwood and softwood furniture blanks from cracking during drying.

AU: Kostomarov,-VN; Krapivko,-GA; et-al.
SO: 1969, Derev. Prom. 1969 18 (10), (20-2). [2 refs.].
PY: 1969
LA: Russian
AB: The authors have developed and patented two film-forming compounds for painting over the endsof furniture blanks to prevent cracking during air or kiln drying. The compounds consist ofacetone, perchlorovinyl resin, and rosin or rosin oils, in the proportions 77/15/8 (by weight).Results of highly promising trials on Beech, Oak, Spruce and Pine are described.
DE: Seasoning-; Seasoning-of-furniture; Seasoning-pretreatment
CAB: OF Forestry-Abstracts 1970 031-05492
UD: 9110
AN: 3105492
DC: ODC847; ODC848

584 of 788
TI: Furniture manufacturing and wood use in the north central region [of the U.S.A.].
AU: Holland,-II; Bentley,-WR
SO: 1969, Bull. Ill. Agric. Exp. Sta. No. 734, 1969. pp. 70. [16 refs.].
PY: 1969
LA: English
AB: Describes the major characteristics of the furniture industry in 8 States, its structure(number, kind and size of firms, products, etc.), operation (marketing, costs, prices, etc.)and use of raw materials (wood supply and trends in wood use).
DE: Furniture-&-furniture-making; Woodworking,-cutting-mouldings,-chiselling,-boring,-turning,-etc. industry; USA-furniture-industry-in-N.E.-states
GE: USA-
CAB: OF Forestry-Abstracts 1970 031-07326
UD: 9110
AN: 3107326
DC: ODC71; ODC836

585 of 788
TI: Analysis and design of furniture frames.
AU: Eckelman,-CA; Suddarth,-SK
SO: 1969, Wood Sci. Technol., N.Y. 1969 3 (3), (239-55). [11 refs.].
PY: 1969
LA: English
LS: German
AB: Develops modifications of the stiffness method of matrix structural analysis applicable toframes with semi-rigid, elastically non-linear joints of finite size, and also a method ofdesigning two-pin dowel joints. Tests on a frame constructed in the light of these theoreticalconsiderations gave results in agreement with predictions. [Cf. F.A. 29 No. 1458.]
DE: Furniture-&-furniture-making; Joints-dowelled

CAB: OF Forestry-Abstracts 1970 031-07327
UD: 9110
AN: 3107327
DC: ODC8127; ODC836

586 of 788
TI: Gluing technique in veneering using single stage veneering process.
AU: Berger,-V; Thomas-[Tomas],-M
SO: 1967, FIRA Translation, Furniture Industry Research Association, Stevenage, Herts. 1967 22 No. 75,[Transl. from Drevo (4), (112-7).
PY: 1967
LA: English
AB: [Cf. F.A. 28 No. 6447.] From title in FIRA Bull. Furn. Ind. Res. Ass., Stevenage 1968 6 (21),(28). P.R.]
DE: Furniture-manufacture-use-of-veneer; Gluing-; Veneers-pressing
CAB: OF Forestry-Abstracts 1969 030-01382
UD: 9110
AN: 3001382
DC: ODC0; ODC8248

587 of 788
TI: Effect of certain factors on the quality of [furniture] items made of bent-and-glued veneers.
AU: Mankevic,-LA; Kucak,-AA
SO: 1968, Derev. Prom. 1968 17 (8), (10-2). [].
PY: 1968
LA: Russian
AB: Graphs the results of studies made with a special vacuum press (that ensures uniform pressuredistribution) to determine the effect on product quality of: the quantity and viscosity of ureaglue applied, package thickness of the veneers and the arrangement of their grain, and theradius and angle of curvature.
DE: Furniture-manufacture-bentwood; Laminated-wood-bending; Strength-testing-bending; Strength-testingvariables-test-pieces-&-their-conditions; Strergth-of-wood-products-furniture-parts
CAB: OF Forestry-Abstracts 1969 030-01412
UD: 9110
AN: 3001412
DC: ODC8248; ODC827; ODC8322; ODC836

588 of 788
TI: Changes in wood micro-structure through progressive stages of decay.
AU: Wilcox,-WW
SO: 1968, U. S. For. Serv. Res. Pap. U.S. For. Prod. Lab., Madison 1968 No. FPL 70, pp. 46. [55 refs.].
PY: 1968
LA: English

AB: A detailed study of the microscopically recorded changes in a softwood (a Southern Pine) and ahardwood (Liquidambar styraciflua) undergoing decay by a typical white-rot fungus (Polyporusversicolor) and a brown-rot fungus (Poria monticola).
DE:Borers,-wood-attack-on,-and-damage-to-buildings-and-furniture; Decay-in-wood; Decay-in-wood-brownrot; Decay-in-wood-changes-in-microstructure; Decay-in-wood-white-rot; Liquidambar-styraciflua wood-decay; Pinus-'southern'-wood-decay; Polyporus-spp.-versicolor; Poria-spp.-monticola
CAB: OF Forestry-Abstracts 1969 030-01472
UD: 9110
AN: 3001472
DC: ODC8111; ODC8442

589 of 788
TI: Investigation on drying Scots Pine timber in the form of lumber and furniture blanks.
AU: Haufa,-T; Haufa,-B
SO: 1968, Prace Inst. Tech. Drewna 1968 15 (2), (49-70). [8 refs.].
PY: 1968
LA: Polish
LS: Russian, English
AB: Investigations were made on lumber 19, 25, 29, 38, 42, and 50 mm. thick, and also blanks madefrom lumber of the same thicknesses. Drying time averaged 20% less for blanks than for lumber.On a volume basis, rejects amounted to 1.5-2.5% for lumber and 7.1-12.6% for blanks. Coststudies indicate that it is best to dry the lumber first and then to produce the furnitureblanks from the kiln-dried material.
DE: Pinus-sylvestris-wood-drying; Seasoning-; Seasoning-of-furniture-blanks; Seasoning-of-lumber
CAB: OF Forestry-Abstracts 1969 030-01503
UD: 9110
AN: 3001503
DC: ODC836; ODC847

590 of 788
TI: Yield from sprout Black Cherry trees sawed with a short-log bolter saw.
AU: Koch,-CB; Galliger,-GW; Jackson,-ND
SO: 1968, Bull. W. Va. Agric. Exp. Sta. 1968 No. 569 pp. 11. [3 refs.].
PY: 1968
LA: English
AB: Gives data on the yield and grade of furniture dimension stock obtainable from low-qualityPrunus serotina trees from second-growth (coppice) stands in West Virginia.
DE: Coppice-utilization; Furniture-manufacture-dimension-stock; Prunus-serotina; Sawmills-andSawmilling
CAB: OF Forestry-Abstracts 1969 030-04760
UD: 9110
AN: 3004760

DC: ODC822; ODC8321

591 of 788
TI: Suggested methods of carrying out a timber decay survey (Part II).
AU: Richardson,-SA
SO: 1969, B.W.P.A. News Sheet Brit. Wood Pres. Ass. 1969 (94), (1-20).
PY: 1969
LA: English
AB: Gives detailed advice on the examination of interior timbering for attack by insects or fungi.[Cf. F.A. 30 No. 3139.]
DE:Borers,-wood-attack-on,-and-damage-to-buildings-and-furniture; Buildings-and-their-constructiondeterioration,-preservation-and-repair; Decay-in-wood-detection; Decay-in-wood-in-buildings
CAB: OF Forestry-Abstracts 1969 030-04780
UD: 9110
AN: 3004780
DC: ODC833; ODC8442

592 of 788
TI: Results of investigations on the species composition of insects destroying wood in buildings ofdifferent ages.
AU: Dominik,-J
SO: 1966, Folia for. polon. (Drzewn.) 1966 7 (121-8). [6 refs.].
PY: 1966
LA: Polish
LS: Russian, German, English
AB: Distinguishes species developing in wood already damaged by fungi, in apparently sound wood,and in wood damaged by fungi as well as in apparently sound wood.
DE: Borers,-wood; Borers,-wood-attack-on,-and-damage-to-buildings-and-furniture; Coleoptera-
CAB: OF Forestry-Abstracts 1969 030-04852
UD: 9110
AN: 3004852
DC: ODC8442; ODC8452

593 of 788
TI: Commercial forced-air drying of unstickered hardwood furniture rounds.
AU: Vick,-CB
SO: 1968, For. Prod. J. 1968 18 (7), (46-8). [1 ref.].
PY: 1968
LA: English
AB: [Cf. F.A. 26 No. 5980.] A pole-type, plywood-sheathed and metal-roofed drier 50 ft. long X 50 ft. wide, with sixteen 60-in. reversible fans placed on the centre line, was usedto dry packages of 2-21/2 in. X 30-44 in. rounds of 6 native hardwoods at100 ° F. and 10% e.m.c. Initial m.c. of 39-96% fell mostly to 20-30% in 6

days with onlyminor degrade, but modifications are recommended for Red Oak [Quercus sp.] and Red Gum(Liquidambar styraciflua heartwood]. Advantages claimed are 40-50% increase in effective driercapacity, and reduction in warp and in handling cost.
DE: Liquidambar-styraciflua-wood-drying; Quercus-incl,-Cyclobalanopsis-spp.-wooddrying; Seasoning-; Seasoning-of-furniture-blanks
CAB: OF Forestry-Abstracts 1969 030-04871
UD: 9110
AN: 3004871
DC: ODC836; ODC847

594 of 788
TI: Producing check-free Beech for turnings.
AU: Rietz,-RC; Jenson,-JA
SO: 1968, For. Prod. J. 1968 18 (11), (42-4). [3 refs.].
PY: 1968
LA: English
AB: Pre-surfacing 21/2-in. squares, 3 ft. long, reduced surface checking during forced-air dryingto 8% m.c. compared with rough-sawn squares. Turned rounds, 21/2 in. in diameter, close-piledfor drying, showed even better results and warped less. [Cf. F.A. 28 No. 3041.]
DE: Fagus-spp.-wood-drying; Seasoning-; Seasoning-effect-of-bolt-length; Seasoning-of-furnitureblanks; Seasoning-of-stacked-sawn-wood
CAB: OF Forestry-Abstracts 1969 030-04872
UD: 9110
AN: 3004872
DC: ODC847

595 of 788
TI: Moderne Holzverarbeitung.
SO: DRW-Verlags-GmbH, Stuttgart.
LA: Norwegian, Latvian, Latvian
AB: Monthly: price DM.3. A journal for managerial staff in the wood, furniture, and plasticsindustry. Citation in F.A.: Mod. Holzverarb., Stuttgart.
DE: Periodicals-and-Serials; Periodicals-and-Serials-woodworking-and-furniture; Germany,-Westperiodicals-and-serials
GE: Germany-; West-
CAB: OF Forestry-Abstracts 1969 030-05068
UD: 9110
AN: 3005068
DC: ODC005; ODC8

596 of 788
TI: The principal indigenous and exotic woods used in construction and decoration [in France].
OT: Principaux bois indigenes et exotiques utilises dans la

construction et la decoration.
SO: 1966, 1966. pp. 10. []. Centre Technique du Bois, Paris.
PY: 1966
LA: French
AB: Summarizes, in tabular form, data on nomenclature, countries of origin, generalcharacteristics, physical and mechanical properties, durability and uses of 22 temperatesoftwoods and hardwoods and 49 tropical hardwoods.
DE: Buildings-and-their-construction-decorative-panelling; Buildings-and-their-construction-timbersfor; Furniture-manufacture-timbers-for; Tropical-timbers
CAB: OF Forestry-Abstracts 1968 029-01213
UD: 9110
AN: 2901213
DC: ODC810

597 of 788
TI: On Walnut and Walnut substitutes.
SO: 1967, Holz-Zbl. 1967 93 (72), (1110-1).
PY: 1967
LA: German
AB: Discusses properties, colouring, grain, distinctive characters, origin, etc. of 19 species ofJuglans and 22 other, mainly tropical, species with comparable appearance.
DE: Furniture-manufacture-timbers-for; Tropical-timbers-properties-and-uses
CAB: OF Forestry-Abstracts 1968 029-01218
UD: 9110
AN: 2901218
DC: ODC810

598 of 788
TI: Entandrophragma congoense, a neglected species of the Congo.
AU: Liben,-L; Dechamps,-R
SO: 1966, Bull. Jard. Bot. Brux. 1966 36 (4), (415-24). [7 refs.D.].
PY: 1966
LA: French
AB: Notes on systematy, distribution, wood anatomy and properties, possible exploitation, and uses.The tree does not attain large dimensions, but produces a very fine cabinet-maker's wood.
DE: Entandrophragma-congoense; Furniture-manufacture-timbers-for; Tropical-timbers; Tropical-timbersproperties-and-uses
CAB: OF Forestry-Abstracts 1968 029-01222
UD: 9110
AN: 2901222
DC: ODC810

599 of 788
TI: Furniture mechanics: framed cabinet furniture.
AU: Eckelman,-CA

SO: 1967, Res. Bull. Ind. Agric. Exp. Sta. No. 826, 1967. pp. 15. [21 refs.].
PY: 1967
LA: English
AB: This paper from the Purdue University wood research laboratory explains, with diagrams, thedevelopment of analytical models for furniture, analytical applications, and 3-dimensionalanalysis. 1
DE: Furniture-manufacture-research; Furniture-manufacture-testing-strength
CAB: OF Forestry-Abstracts 1968 029-01458
UD: 9110
AN: 2901458
DC: ODC836

600 of 788
TI: Hard Maple raw material for furniture components: effect of sawmill edging practice on theyield.
AU: Flann,-IB; Lamb,-FM; Neilson,-RW
SO: 1967, For. Prod. J. 1967 17 (10), (29-34). [4 refs.].
PY: 1967
LA: English
AB: In a study at the Forest Products Laboratory, Ottawa, of five edging practices (unedged,conventional, wide, severe and 'optimum') using logs from Ontario, the yield of dimension stockwas greatest from unedged boards but, to restrict additional handling, kiln and machiningcosts, the wide edging practice has advantages [cf. F.A. 28 No. 4689].
DE: Acer-spp.-wood-sawmilling; Furniture-manufacture-components; Sawmilling-edging
CAB: OF Forestry-Abstracts 1968 029-03040
UD: 9110
AN: 2903040
DC: ODC8321

601 of 788
TI: Investigations on the effect of joints on the bending strength of wooden [furniture]assemblies.
AU: Trusewicz,-A
SO: 1967, Prace Inst. Tech. Drewna 1967 14 (4), (31-69). [39 refs.].
PY: 1967
LA: Polish
LS: Russian, English
AB: Tabulates and graphs the results of a study on the effect of joint type (flat and roundedtenons and double dowels), the ratio of tenon or dowel thickness to the width of the member,and the direction of bending, on the static bending and fatigue strengths of typical gluedcarcass furniture joints made of Beech.
DE: Fagus-sylvatica-incl.-F.-moesiaca-wood-furniture; Glue-joints,-strength-&-durability; Jointsdowelled-; Joints-tenon
CAB: OF Forestry-Abstracts 1968 029-06447
UD: 9110

AN: 2906447
DC: ODC8127; ODC8247; ODC8248; ODC836

602 of 788
TI: Precompressed and flexible wood.
AU: Dean,-AR
SO: 1967, FIRA Bull. Furn. Ind. Res. Ass., Stevenage 1967 5 (20), (92-4).
PY: 1967
LA: Persian, Rumanian
AB: The patented processes developed at F.P.R.L., Princes Risborough, for producing these two typesof wood [cf. F.A. 28 No. 4676], and their applications in bent wood furniture are described.

DE: Bending,-wood; Furniture-manufacture-bentwood; Plasticized-wood
CAB: OF Forestry-Abstracts 1968 029-06483
UD: 9110
AN: 2906483
DC: ODC827; ODC836

603 of 788
TI: Quantitative evaluation of the quality of bent-and-glued items.
AU: Mankevic,-LA; Kucak,-AA; Averina,-GA
SO: 1968, Derev. Prom. 1968 17 (3), (3-5). [1 ref.].
PY: 1968
LA: Russian
AB: Proposes a standard method for testing the rigidity and 'unbending' strength of bent-and-gluedfurniture parts.
DE: Furniture-manufacture-bentwood; Glue-joints,-strength-&-durability-testing; Strength-of-woodproducts-furniture-parts
CAB: OF Forestry-Abstracts 1968 029-06484
UD: 9110
AN: 2906484
DC: ODC8127; ODC827; ODC836

604 of 788
TI: Wood finishing.
AU: Collier,-JW
SO: 1967, 1967. pp. xxiii + 306 + 38 photos. [15 refs. Price 35s.]. Pergamon Press, Oxford.
PY: 1967
LA: English
AB: Covers materials, processes and appliances, and brief notes on timber defects, woodpreservation, workshop safety, testing etc.
DE: Finishes,-wood; Finishes,-wood-text-book; Furniture-manufacture-bentwood
CAB: OF Forestry-Abstracts 1968 029-06485
UD: 9110
AN: 2906485
DC: ODC8291

605 of 788
TI: Sanding machines for particle board.
AU: Schmutzler,-W
SO: 1967, FIRA Translation, Furniture Industry Researc Association, Stevenage, Herts. No. 71, 1967.[Transl. from Holz Roh u. Werkstoff 1966 24 (9), (390-5). [Cf. F.A. 28 No. 2927.] Fro titlein FIRA Bull. Furn. Ind. Res. Ass., Stevenage 1967 5 (20) (112).].
PY: 1967
LA: English
DE: Finishes,-wood; Furniture-manufacture-bentwood Particle-board-sanding; Sanding-
CAB: OF Forestry-Abstracts 1968 029-06486
UD: 9110
AN: 2906486
DC: ODC0; ODC8291; ODC862

606 of 788
TI: Kinematics of cutting by sand grains, and the sanding angle i drum sanders.
AU: Mihailovic,-M; Potrebic,-M
SO: 1967, Sumarstvo 1967 20 (3/4), (33-5).
PY: 1967
LA: Serbo-Croatian
LS: English
AB: A theoretical study, from which it is concluded that the sam surface roughness will beobtained with axial oscillation of th drum as without it.
DE: Finishes,-wood; Furniture-manufacture-bentwood; Sanding-
CAB: OF Forestry-Abstracts 1968 029-06487
UD: 9110
AN: 2906487
DC: ODC8291

607 of 788
TI: Impregnation, sealing and coating with epoxy resins.
AU: Manz,-A; Schik,-JP
SO: 1966, Adhasion, Berlin 1966 10 (10), (404-16). [From abstr. i Holz Roh- u. Werkstoff 1967 25 (12),(483). [G.]].
PY: 1966
LA: German
AB: Epoxy resins give a resistant finish on wood and othe surfaces, and by incorporation of hard,granular fillers a non-sli surface may be produced. Difficulties that may arise in applyingth resin coatings to wood surfaces can be overcome by suitabl pre-treatments.
DE: Finishes,-wood; Finishes,-wood-epoxy-resin; Furniture-manufacture-bentwood
CAB: OF Forestry-Abstracts 1968 029-06488
UD: 9110
AN: 2906488

DC: ODC8291

608 of 788
TI: Linear programming-application to machine loading in a furniture plant.
AU: Penick,-EB, Jr.
SO: 1968, For. Prod. J. 1968 18 (2), (29-34).
PY: 1968
LA: English
AB: Describes an application of linear programming to the production planning problems of machineloading, and discusses how such programming should lead to more effective use of machines andlabour resources.
DE: Furniture-manufacture-automation; Furniture-manufacture-costs; Linear-programming
CAB: OF Forestry-Abstracts 1968 029-06533
UD: 9110
AN: 2906533
DC: ODC836

609 of 788
TI: Working out a seasoning schedule for Afrormosia and Finnish Birch.]
AU: Lele,-D
SO: 1967, Faip. Kutatas., Budapest 1967 (1/2), (87-99). [13 refs.].
PY: 1967
LA: Hungarian
LS: Hungarian, Russian, English, German
AB: Discusses the properties of Afrormosia elata and Betula verrucosa, their suitability for themanufacture of chairs, and kiln drying, including results of trials. A. elata needs slow andcareful seasoning to avoid splitting. B. verrucosa can be treated like Beech.
DE: Afrormosia-elata; Betula-utilis-wood-drying; Furniture-manufacture-seasoningfor; Seasoning-; Seasoning-kilns-schedules
CAB: OF Forestry-Abstracts 1968 029-06634
UD: 9110
AN: 2906634
DC: ODC836; ODC847

610 of 788
TI: Comparative tests of the strength of various types of undetachable edge joints for use withparticle-board components.
AU: Kutschukov[Kjucukov],-GB; Josifov,-NA
SO: 1968, Holztechnol., Leipzig 1968 9 (1), (43-8). [12 refs.].
PY: 1968
LA: German
LS: German, English, Russian
AB: Fifteen types of corner joints were tested and classified according to the derived strengthcharacteristics with a view to

application in furniture manufacture.
DE: Furniture-manufacture-particle-board-components; Joints-corner; Particle-board; Particle-boardjoints,-corner
CAB: OF Forestry-Abstracts 1968 029-06721
UD: 9110
AN: 2906721
DC: ODC824; ODC836; ODC862

611 of 788
TI: Furniture-industry technical terminology.
OT: Fachausdrucke fur die Mobelindustrie.
SO: 1966, [1966]. pp. 49 + 8. []. Industria Press, Den Haag.
PY: 1966
LA: German, English, French, Italian, Dutch
AB: Lists 795 German terms with their English, French, Italian and Dutch equivalents; an Englishindex is also provided.
DE: Forest-products-and-their-utilization; Furniture-manufacture-terminology; Glossaries,Dictionaries-&c-English-French-Italian-Dutch; Terminology-furniture-industry
CAB: OF Forestry-Abstracts 1967 028-01425
UD: 9110
AN: 2801425
DC: ODC0011; ODC836

612 of 788
TI: The manufacture and use of thin face veneers.
AU: Krisztian,-G
SO: 1966, Holztechnol., Dresden 1966 7 (3), (172-6). [17 refs.].
PY: 1966
LA: German
LS: German, Russian, English
AB: Describes tests indicating that sliced face veneer from Walnut or Mahogany can be producedeconomically in thicknesses of 0.3-0.4 mm. and used on all types of board employed in thefurniture industry.
DE: Forest-products-and-their-utilization; Furniture-manufacture-use-of-veneer; Juglansspp.-; Swietenia-spp.; Veneers-sliced
CAB: OF Forestry-Abstracts 1967 028-02940
UD: 9110
AN: 2802940
DC: ODC826; ODC8322

613 of 788
TI: Prepared media for rearing the common furniture beetle Anobium punctatum (Deg.) (Col.Anobiidae).
AU: Baker,-JM; Bletchly,-JD
SO: 1966, J. Inst. Wood Sci. 1966 (17), (53-7). [11 refs.].
PY: 1966
LA: English

AB: Presents the results of laboratory trials on accelerated rearing of A. punctatum forexperimental purposes using: (1) blocks made from veneers (0.5 mm.) of outer-zone Pinussylvestris sapwood bonded with a blood-albumen and casein glue; (2) wood-flour cakes containingyeast, starch, cellulose, and protein; and (3) commercial brands of dog biscuits. Resultsshowed that (1) and (3) were the most satisfactory for larval growth, but difficulties wereexperienced in inducing pupation.
DE: Borers,-wood; Borers,-wood-furniture-beetle; Borers,-wood-laboratory-rearing; Forest-products-andtheir-utilization
CAB: OF Forestry-Abstracts 1967 028-03026
UD: 9110
AN: 2803026
DC: ODC8452

614 of 788
TI: Insect biology and nutrition. Common furniture beetle (Anobium punctatum). Nutritional effectsof seasonal variations in the nitrogen content of wood.
SO: 1965, Extr. from Rep. Dir. For. Prod. Res., Lond. 1965, 1966 (21 + 1 gph.) [1 ref.].
PY: 1965
LA: English
AB: Tests on Willow branches cut at regular intervals for 5 years showed that N content, markedlyhigher in spring, is closely related to rate of growth of A. punctatum.
DE: Borers,-wood; Borers,-wood-effect-of-nitrogen-content-of-wood; Borers,-wood-furniturebeetle; Borers,-wood-nutrition; Forest-products-and-their-utilization
CAB: OF Forestry-Abstracts 1967 028-03027
UD: 9110
AN: 2803027
DC: ODC8132; ODC8452

615 of 788
TI: Field studies. Eradication of insects by insecticidal smokes.
SO: 1965, Extr. from Rep. Dir. For. Prod. Res., Lond. 1965, 1966 (28). [1 ref.].
PY: 1965
LA: English
AB: Use of lindane/dieldrin smoke canisters for eradication of Anobium punctatum in furniture in asmall church has proved ineffective. Beetles emerged unharmed, and re-infestation occurredthrough flight holes made after treatment.
DE: Borers,-wood; Borers,-wood-control,-chemical; Borers,-wood-furniture-beetle; Forest-products-andtheir-utilization
CAB: OF Forestry-Abstracts 1967 028-03028
UD: 9110
AN: 2803028
DC: ODC8452

616 of 788
TI: An assessment of the health of operators concerned with th conservation of wood in buildingsin Great Britain.
AU: Morgan,-JE; Hickin,-NE
SO: 1966, J. Inst. Wood Sci. 1966 (17), (27-37 + 1 tbl.). [1 refs.].
PY: 1966
LA: English
AB: A sample of 14 men exposed to toxic substances in the course o their daily work in applyingchemical sprays to control infestatio by Anobium punctatum in houses were subjected tothorough medica examination, and their case histories studied. Results showed tha there wereno significant adverse effects on their health, even ove long periods of employment.
DE: Borers,-wood; Borers,-wood-furniture-beetle Forest-products-and-their-utilization Health-andhygiene-effect-of-chemical-sprays Preservation-of-building-timbers Preservatives,-wood-toxicityto-workers
CAB: OF Forestry-Abstracts 1967 028-03029
UD: 9110
AN: 2803029
DC: ODC304; ODC8452

617 of 788
TI: Modern furniture and panel finishing materials.
AU: Jenuleson,-WR
SO: 1966, For. Prod. J. 1966 16 (7), (53-7).
PY: 1966
LA: English
AB: Properties, uses, application methods etc. are discussed and tabulated for a number ofmaterials suitable for wood and/or hardboard finishes, and classified as solvent evaporating,catalysed, or thermosetting-polymerizing types.
DE: Fibreboard-overlays; Finishes,-wood; Forest-products-and-their-utilization; Furniture-manufacturefinishes
CAB: OF Forestry-Abstracts 1967 028-04677
UD: 9110
AN: 2804677
DC: ODC8291

618 of 788
TI: Gluing technique in veneering with single-daylight veneer presses.
AU: Berger,-V; Tomas,-M
SO: 1967, Drevo 1967 22 (4), (112-7 + smries.). [13 refs.].
PY: 1967
LA: Czech
LS: Czech, Russian, German, English
AB: Discusses the recent introduction of continuous pressing into

the Czechoslovakian furnitureindustry, and its economic significance, and gives tabulated and graphical data from researchon gluing schedules best suited to the process.
DE: Forest-products-and-their-utilization; Furniture-manufacture-use-of-veneer; Glues-andgluing; Veneers-pressing
CAB: OF Forestry-Abstracts 1967 028-06447
UD: 9110
AN: 2806447
DC: ODC8248; ODC836

619 of 788
TI: New techniques in furniture finishes.
AU: Conelly,-HH
SO: 1967, For. Prod. J. 1967 17 (4), (19-21).
PY: 1967
LA: English
AB: Includes descriptions of high-temperature drying of wood finishes, in which wood is exposed forso short a time that it does not become hot. In one kiln here described, coated wood is exposedfor 6 min. to 180 ° F.; in another for 15 sec. to 275 ° .
DE: Finishes,-wood; Finishes,-wood-high-temperature-drying; Forest-products-and-theirutilization; Furniture-manufacture-finishes
CAB: OF Forestry-Abstracts 1967 028-06464
UD: 9110
AN: 2806464
DC: ODC8291; ODC836

620 of 788
TI: Possibilities of increasing the production of Beech wood blanks for bentwood furniture.
AU: Tavoda,-J
SO: 1967, Drevo 1967 22 (3), (80-3). [].
PY: 1967
LA: Slovak
LS: Slovak, Russian, English, German
AB: A general discussion, stressing the importance of selecting timber free from defects, care incutting the blanks to the specified dimensions and, in the interval between cutting andbending, control of temperature and moisture during storage, and the use of pallets andbundling for handling and transport.
DE: Fagus-sylvatica-incl.-F.-moesiaca-wood-furniture-manufacture; Forest-products-and-theirutilization; Furniture-manufacture-blanks-for-bentwood-furniture
CAB: OF Forestry-Abstracts 1967 028-06508
UD: 9110
AN: 2806508
DC: ODC836

621 of 788

TI: A short library list on furniture.
SO: 1965, 1965. pp. 29. Many refs. Furniture Industry Research Association, London.
PY: 1965
LA: English
AB: A select bibliography of British, American and European literature on furniture manufacture,including design, construction, history, materials, processes, production and marketing.
DE: Forest-products-and-their-utilization; Furniture-manufacture-bibliography
CAB: OF Forestry-Abstracts 1966 027-01341
UD: 9110
AN: 2701341
DC: ODC00481; ODC836

622 of 788
TI: Interference between materials used in furniture.
AU: Freeborn,-AS
SO: 1965, FIRA Technical Report, Furniture Industry Research Association, Stevenage No. 18, 1965. pp. 21.Restricted.
PY: 1965
LA: English
AB: The different causes of interference are discussed, and four groups of materials and substancesthat may cause damage are distinguished: materials and substances used in manufacture;materials used in packing, substances met with in store or in use; and materials used inmaintenance. Many known examples from each group are given and the effects described, but it isnot claimed that the list is complete. An index is given of 104 materials and substances whichmay cause or suffer damage; it includes 18 hardwoods and 6 softwoods.
DE: Forest-products-and-their-utilization; Furniture-manufacture-interaction-between-materials
CAB: OF Forestry-Abstracts 1966 027-01342
UD: 9110
AN: 2701342
DC: ODC813; ODC836

623 of 788
TI: Animal glues vs. vinyl copolymers.
AU: McCormack,-PH
SO: 1965, Woodwkg. Dig. 67 (6; 7), 1965 (34-6; 29).
PY: 1965
LA: English
AB: Compares the merits of these types of adhesive and discusses their use in furnituremanufacture. The advantages of vinyl copolymers, discussed with particular reference to themanufacture of joints, include greater speed of preparation, ease of application withoutheating, quicker attainment of final bond strength, bond resistance to moisture, heat andmicro-organisms, and suitability for application from automatic and semi-automatic appliances.

DE: Forest-products-and-their-utilization; Furniture-manufacture-gluing-technique; Glues-andgluing; Glues-animal; Glues-synthetic-copolymers
CAB: OF Forestry-Abstracts 1966 027-02892
UD: 9110
AN: 2702892
DC: ODC8248

624 of 788
TI: Standard specification for timber to be used in the manufacture of furniture.
SO: 1963, S. Afr. Bur. Stand. Specif. No. 737, 1963. pp. 26. Price Rand 2.00.
PY: 1963
LA: English, Afrikaans
AB: Comprises 6 sections on scope, definitions, requirements, packing and marking, sampling andcompliance with specification, and inspection and methods of test.
DE: Forest-products-and-their-utilization; Furniture-manufacture-standards
CAB: OF Forestry-Abstracts 1966 027-02951
UD: 9110
AN: 2702951
DC: ODC836; ODC854

625 of 788
TI: Anobiidae attacking furniture.
AU: Nour,-H; et-al.
SO: 1962, Bulletin, Societe Entomologique d'Egypte, Le Caire 46, 1962 (1963), (1-3).
PY: 1962
LA: English
AB: PCP, DDT, o-dichlorobenzene, and chlordane, used separately, and a mixture of PCP andchlordane, were all successful in exterminating Nicobium -castaneum and Oligomerus ptilinoideswhich had attacked the furniture and floors of the Ras-el-Teen palace in Alexandria.
DE: Borers,-wood; Borers,-wood-control-chemical; Borers,-wood-in-floors-and-furniture; InsecticidesDDT-control-of-wood-borers; Insecticides-PCP; Insecticides-PCP-and-chlordane; Insecticideschlordane-
CAB: OF Forestry-Abstracts 1966 027-04978
UD: 9110
AN: 2704978
DC: ODC1457; ODC841; ODC8452

626 of 788
TI: New rapidly curing glues that shorten the pressing time in the manufactures of particle board,plywood and veneered furniture.
AU: Grigorescu,-V; et-al.
SO: 1965, Stud. Cerc. Inst. Cerc. For., Bucuresti 25, 1965

(245-56). 12 refs.
PY: 1965
LA: Rumanian
LS: English, German, Russian
AB: Reports experiments with urea-formaldehyde glues, using different temperatures, hardeners, andproportions of hardener. A new hardener has been developed (10% NH4Cl, 10% NH3,80% water) the use of which reduces pressing time by 42% for particle boards and 20% forplywood.
DE: Forest-products-and-their-utilization; Furniture-manufacture-gluing-technique; Glues-andgluing; Glues-hardeners; Glues-synthetic-resin-urea-formaldehyde; Glues-synthetic-resin-used-inparticle-board; Gluing-curing-time; Gluing-particle-board; Gluing-pressing-times; Particle-boardbinders; Particle-board-gluing
CAB: OF Forestry-Abstracts 1966 027-06831
UD: 9110
AN: 2706831
DC: ODC8248

627 of 788
TI: Automation of the production of modulded laminates [for furniture manufacture].
AU: Morozow[Morozov],-NA; Userenko,-ZI
SO: 1966, Holztechnol., Dresden 7 (1), 1966 (47-55).
PY: 1966
LA: German
LS: German, Russian, English
AB: A description of large-scale Russian manufacturing methods.
DE: Forest-products-and-their-utilization; Furniture-manufacture-automation; Furniture-manufactureuse-of-moulded-laminates; Laminated-wood; Laminated-wood-moulded
CAB: OF Forestry-Abstracts 1966 027-06878
UD: 9110
AN: 2706878
DC: ODC8322; ODC836

628 of 788
TI: Timbers and board materials used in the funiture industry.
AU: Webster,-C
SO: 1966, 1966. pp. 37. Forest Products Research Laboratory, Prices Risborough.
PY: 1966
LA: English
AB: A survey, using data from 80 British firms, of the suitability of different timbers and boardmaterials for various purposes, and of the effect of current production methods on theirsuitability. Sections are included on cabinet work, types of furniture, comments on timbers andboard materials (48 hardwoods, 5 softwoods and 6 boards), adhesives, timber drying, colourchange, finishes, and export.

DE: Forest-products-and-their-utilization; Furniture-manufacture-species-used
CAB: OF Forestry-Abstracts 1966 027-06902
UD: 9110
AN: 2706902
DC: ODC836; ODC862

629 of 788
TI: Machining of dimension stock for furniture.
AU: Nakagawa,-H; et-al.
SO: 1964, Rep. For. Prod. Res. Inst., Hokkaido No. 34, 1964. pp. 12.
PY: 1964
LA: Japanese
LS: Japanese, English, English
AB: Graphed and tabular data on the machining properties of kiln-dried Birch, Oak, and Ashdimension stock.
DE: Betula-spp.-wood-furniture; Forest-products-and-their-utilization; Fraxinus-spp.-woodfurniture; Furniture-manufacture-dimension-stock; Quercus-spp.-wood-furniture; Working-propertiesof-wood
CAB: OF Forestry-Abstracts 1965 026-01349
UD: 9110
AN: 2601349
DC: ODC8128; ODC836

630 of 788
TI: Drying furniture rounds by solid stacking in portable cradles.
SO: 1963, Extr. from Rep. Stheast. For. Exp. Sta. 1963, 1964 (57).
PY: 1963
LA: English
AB: Sap Gum [Liquidambar styraciflua] rounds so stacked dried in 8.8 days from 83 to 18% m.c. at100 ° F. and 10% e.m.c., and in 12 days from 103 to 13% at 120 ° and 8% e.m.c.practically without degrade, sufficient surface remaining exposed to the circulating airdespite the close stacking.
DE: Forest-products-and-their-utilization; Liquidambar-styraciflua-woodseasoning; Seasoning-; Seasoning-high-temperature; Seasoning-of-furniture-blanks; Seasoning-stacking
CAB: OF Forestry-Abstracts 1965 026-01432
UD: 9110
AN: 2601432
DC: ODC836; ODC847

631 of 788
TI: Wood finishes in furniture.
AU: Hansen,-W
SO: 1964, Wood 29 (12), 1964 (50-2).
PY: 1964
LA: English

AB: Describes recent developments in Denmark and Sweden, particularly for Teak, which is treatedwith either (a) a quick-drying oil, (b) special acid-hardening Teak lacquer, or (c) thin d.d.(polyurethane) lacquer, and machine- or hand-sanded. The best appearance is given by (a), but(b) dries quicker and, with two coats, is more wear-resistant; (c) is quickest but gives asurface inferior to (b), which is therefore usually preferred. Treatment of Walnut, Oak, andRio Rosewood is also discussed.
DE: Dalbergia-sp.; Finishes,-wood; Finishes,-wood-lacquers; Finishes,-wood-oil; Finishes,-woodpore-filling; Finishes,-wood-sanding; Forest-products-and-their-utilization; Furniture-manufacturefinishing; Juglans-spp.-wood-finishing; Quercus-spp.-wood-finishing; Tectona-grandis-woodfinishing
CAB: OF Forestry-Abstracts 1965 026-04353
UD: 9110
AN: 2604353
DC: ODC8291; ODC836

632 of 788
TI: Staining sliced veneer of Juglans mandshurica and Kalopanax pictus.
AU: Morozov,-VA
SO: 1963, Derev.Prom. 12(8), 1963 (22).
PY: 1963
LA: Russian
AB: A note on the use of gaseous or liquid NH3 to stain sliced veneers of these species toimitate Walnut (J. regia) veneer.
DE: Finishes,-wood; Finishes,-wood-stains; Forest-products-and-their-utilization; Furnituremanufacture-use-of-veneer; Juglans-mandshurica; Kalopanax-pictus-K.-septemlobus
CAB: OF Forestry-Abstracts 1965 026-04354
UD: 9110
AN: 2604354
DC: ODC8291; ODC8322; ODC836

633 of 788
TI: Mechanization of the process of pore-filling on wood surfaces.
AU: Bessonova,-NM
SO: 1963, Derev. Prom. 12(7), 1963 (4-6). 4 ref.
PY: 1963
LA: Russian
AB: Describes an experimental Soviet pore-filling machine in which the filler is applied by rollerand rubbed in by one doctor blade, the excess being removed by a second doctor. The machineworks at feed speeds up to 18 m./min. Trials in filling composite boards veneered with Oak andAsh, and comparison with normal Soviet practice (hand application, rubbing in by rotarymachine, hand removal of excess), showed the pore-filling machine to be very promising.
DE: Finishes,-wood; Forest-products-and-their-utilization; Fraxinus-excelsior-woodfinishing;

Furniture-manufacture-use-of-veneer; Quercus-robur-s.l.-wood-finishing
CAB: OF Forestry-Abstracts 1965 026-04355
UD: 9110
AN: 2604355
DC: ODC8291; ODC836

634 of 788
TI: Using Larix sibirica in furniture production.
AU: Cernenko,-SA; Tolpygin,-PP
SO: 1964, Derev. Prom. 13(1), 1964 (9-11). 4 refs.
PY: 1964
LA: Russian
LS: Russian
AB: As part of a study on L. sibirica as a source of veneer and plywood, the authors reportexperiments on the use of this species as a face veneer instead of sliced hardwood veneer.Optimum schedules have been worked out for log breakdown, heat treatment (by hot water),peeling (flitches were cut to veneer by a peeler, as no slicer was available), drying, andfacing. Results were satisfactory from both technical and economic aspects.
DE: Forest-products-and-their-utilization; Furniture-manufacture-timbers-for; Furniture-manufactureuse-of-veneer; Larix-sibirica-wood-veneers; Veneer-cutting; Veneer-face-veneers
CAB: OF Forestry-Abstracts 1965 026-04376
UD: 9110
AN: 2604376
DC: ODC826; ODC8322; ODC836

635 of 788
TI: Residual stresses in Beech furniture blanks.
AU: Dlin,-FS
SO: 1963, Derev. Prom. 12 (12), 1963 (14-5). 1 ref.
PY: 1963
LA: Russian
AB: A detailed analysis was made of residual stresses in pieces of Beech 35 mm. thick after kilndrying. Experiments showed that a final treatment at 80 ° C., r.h. 80%, for 9 hours wasthe best for eliminating these stresses.
DE: Fagus-sylvatica-wood-seasoning; Forest-products-and-their-utilization; Seasoning-; Seasoningchemical-; Seasoning-of-furniture-blanks; Seasoning-stresses
CAB: OF Forestry-Abstracts 1965 026-04482
UD: 9110
AN: 2604482
DC: ODC8122; ODC847

636 of 788
TI: Pressing [furniture] parts out of comminuted wood.

AU: Bespjatko,-BE
SO: 1964, Derev. Prom. 13 (12), 1964 (17).
PY: 1964
LA: Russian
LS: Russian
AB: Circular chair-seat frames hot-pressed from a mixture of wood particles (¾ 2-2.5 mm.)and urea resin proved to be stronger than solid wood frames. Optimum pressure is 220 kg./sq.cm. with particles of initial m.c. 5-6%. The frames should be of uniform cross-section all theway round.
DE: Chemical-utilization-of-wood; Chips-moulded-products; Forest-products-and-their-utilization; Furniture-manufacture-use-of-moulded-particles;Moulding-of-chips; Plastics-
CAB: OF Forestry-Abstracts 1965 026-04529
UD: 9110
AN: 2604529
DC: ODC836; ODC862; ODC865

637 of 788
TI: Forced air-drying Sweet Gum furniture billets in solid stacks.
AU: Vick,-CB
SO: 1965, For. Prod. J. 15 (3), 1965 (121).
PY: 1965
LA: English
AB: In test runs at Athens, Georgia, unit loads of 1600 billets 2 1/2 in. in diam. X 30in. long, stacked 4.5 ft. high and 12 ft. long, were dried from green to ca. 18% m.c. at100 ° F. in 8.8 days. At 120 ° , they dried to 18% in 7, and to 13% in 12 days withvery little degrade and, in general, good uniformity. [An erratum in For. Prod. J. 15 (4), 1965(28-A) states that the wood was not Sweetgum but sap Tupelo [Nyssa sp.].]
DE: Forest-products-and-their-utilization; Nyssa-spp.; Seasoning-; Seasoning-air; Seasoningforced-air; Seasoning-of-furniture-blanks
CAB: OF Forestry-Abstracts 1965 026-05980
UD: 9110
AN: 2605980
DC: ODC847

638 of 788
TI: FIRA Technical Bulletin.
SO: Price £ 1 p.a. Furniture Industry Research Association, London.
LA: English
AB: Quarterly. Replaces Tech. Bull. Furn. Developm. Coun. Vol. 1, No. 1 was issued in Jan. 1962.Citation in F.A.: FIRA tech. Bull. Furn. Ind. Res. Ass., Lond.
DE: Forest-products-and-their-utilization periodicals; Furniture-manufacture-publications-on
CAB: OF Forestry-Abstracts 1964 025-00006
UD: 9110
AN: 2500006

DC: ODC005; ODC836

639 of 788
TI: Surface checking of veneered furniture.
AU: Hunt,-DG
SO: 1963, FIRA Technical Report, Furniture Industry Research Association, London No. 9, 1963. pp. 19. 12refs.
PY: 1963
LA: English
AB: Surveys available literature on the subject, and describes experience at FIRA in answeringenquiries into the causes of veneer checking in furniture and in recommending precautions toavoid it. The chief factor appears to be the control of the moisture content of the materials,particularly of the veneers, at all stages of manufacture. The manner of laying veneers, andgood adhesion of the veneer to the base material are also important. The main recommendationsgiven as good manufacturing practice are: (1) obtaining a core m.c. not more than 12%, and aveneer m.c. not more than 3.8%, before veneering; (2) ensuring uniformly good adhesion betweenveneer and core; (3) conditioning panels, after veneering, to uniform m.c. suited to serviceconditions (e.g. ca. 85% for centrally heated rooms in U.K.); (4) careful and uniform sandingof panels after veneering, to avoid reducing veneer thickness too severely; and (5) planing,finishing, and packing, with due regard to likely m.c. conditions during shipment.
DE: Checking-in-wood,-in-veneer; Forest-products-and-their-utilization; Furniture-manufacture-use-ofveneer; Veneer-checking
CAB: OF Forestry-Abstracts 1964 025-01345
UD: 9110
AN: 2501345
DC: ODC8322; ODC836; ODC852

640 of 788
TI: Statistical digest for the [U.K.] furniture industry. September 1963.
SO: 1963, 1963. pp. iii + 88. Furniture Development Council, London.
PY: 1963
LA: English
AB: Includes tabulated data on imports and consumption of timber and other wood-based materials.
DE: Economics-transport-and-forest-products-industry; Forest-products-and-their-utilizationeconomics-of; Furniture-manufacture-statistics; Timber-trade-statistics; Great-Britain-furnitureindustry
GE: Great-Britain
CAB: OF Forestry-Abstracts 1964 025-02673
UD: 9110
AN: 2502673
DC: ODC72; ODC73; ODC836

641 of 788
TI: The use of Mango wood waste as material for diaper.
AU: Rao,-KR
SO: 1963, Indian For. 89 (11), 1963 (727-8 + 2 plates).
PY: 1963
LA: English
AB: Describes the preparation and dyeing of the wood and its making up into decorative overlay forfurniture etc.
DE: Diaper-work; Forest-products-and-their-utilization; Furniture-manufacture-decorativeoverlay; Mangifera-indica; Veneer-decorative; Veneer-timbers-for
CAB: OF Forestry-Abstracts 1964 025-02852
UD: 9110
AN: 2502852
DC: ODC8322; ODC836

642 of 788
TI: Drying bent-wood elements containing false heart.
AU: Serwa,-Z
SO: 1963, Przem. Drzewny 14 (7), 1963 (17-20). 1 ref.
PY: 1963
LA: Polish
AB: Shows in graphs the results of a series of tests on kiln-drying 5 different types of Beechbentwood pieces (1400 in all) for furniture manufacture. In pieces containing 0, 25, 50 or 100%false heart, rejects due to defects developing during drying were 2.6, 4.3, 6.3, and 5.4%respectively.
DE: Defects-in-wood; Defects-in-wood-abnormal-heartwood; Defects-in-wood-false-heartwood; Defects-inwood-seasoning; Fagus-sylvatica--wood-defects; Fagus-sylvatica--wood-seasoning; Forest-productsand-their-utilization; Furniture-manufacture-drying-chair-blanks
CAB: OF Forestry-Abstracts 1964 025-02970
UD: 9110
AN: 2502970
DC: ODC827; ODC836; ODC847; ODC852

643 of 788
TI: Rationalizing glue joints in the wood industry.
AU: Dupont,-W
SO: 1963, Holz-Zbl. 89 (141), 1963: Suppl. (Moderne Holzverarbeitung No. 30). pp. 176-80.
PY: 1963
LA: German
AB: Discusses improvements in the dimensions, construction and gluing of tenon joints, dowel jointsetc., in chairs and similar pieces of furniture, including some results of the author's owntests, the practical testing of strength in wear (including a machine for loaded rocking) andthe shortening of setting times for PVA glues through single-surface heating [cf. F. A. 24 N o.2791].
DE: Forest-products-and-their-utilization

Furniture-manufacture-gluing-technique; Glue-joints,strength-and-durability; Glues-synthetic-resin-poly-vinyl; Gluing-heating-of-wood-during; Gluingrationalization-
CAB: OF Forestry-Abstracts 1964 025-04187
UD: 9110
AN: 2504187
DC: ODC8247; ODC8248; ODC836

644 of 788
TI: Essentials of good furniture manufacture.
AU: Ali,-SF
SO: 1963, Pakistan For. Res. Lab. Bull. (Wood Wkg. Ser.) No. 2, 1963. pp. 12. 4 refs.
PY: 1963
LA: English
AB: Notes on seasoning and storage of wood, surface preparation and finishing.
DE: Bombax-malabaricum-Salmalia-malabarica; Buildings-and-their-construction-exteriorwoodwork;Finishes,-wood; Furniture-manufacture-seasoning; Seasoning-moisture-emission-coefficientof-furniture-blanks
CAB: OF Forestry-Abstracts 1964 025-05765
UD: 9110
AN: 2505765
DC: ODC8291; ODC836; ODC847

645 of 788
TI: Suitability in indigenous wood species for furniture manufacture.
AU: Ali,-SF; Wallin,-WB
SO: 1963, Pakistan For. Res. Lab. Bull. (Wood Wkg. Ser.) No. 1, 1963. pp. 3.
PY: 1963
LA: English
AB: The species tested, all of which proved suitable, were Tetrameles nudiflora, Trewia nudiflora,Bombax malabaricum, Cedrela toona, Mangifera indica, Amoora spp., Swintonia floribunda,Albizzia procera, and Michelia champaca.
DE: Albizzia-procera; Amoora-spp.; Ceeropia-toona; Furniture-manufacture-timbers-for; Mangiferaindica-; Michelia-champaca; Swintoniafloribunda-; Tetrameles-nudiflora
CAB: OF Forestry-Abstracts 1964 025-05766
UD: 9110
AN: 2505766
DC: ODC836

646 of 788
TI: The use of Hornbeam for making solid and bentwood furniture and school equipment.
AU: Lazarescu,-C; Boiciuc,-M

SO: 1962, Industr. Lemn. 13 (6), 1962 (211-6).
PY: 1962
LA: Rumanian
LS: Russian, German, French, English
AB: Gives the results of experiments, which indicate that Hornbeam can be used for solid woodfurniture and school equipment, though inferior to, and more expensive than Beech. Its use forbentwood furniture would depend on an adequate supply of first-quality logs.

DE: Bending,-wood; Carpinus-betulus-wood-furniture; Forest-products-and-their-utilization; Furnituremanufacture-timbers-for
CAB: OF Forestry-Abstracts 1963 024-01259
UD: 9110
AN: 2401259
DC: ODC827; ODC836

647 of 788
TI: Drying chair blanks under restraint in chambers.
AU: Kurnosov,-AP
SO: 1962, Lesn., Z., Arhangel'sk 5 (1), 1962 (96-102).
PY: 1962
LA: Russian
AB: Pilot trials at a Leningrad furniture factory showed that restraint of Beech blanks duringdrying greatly reduced rejects due to warping.
DE: Fagus-sylvatica-incl.-F.-moesiaca-wood-seasoning; Forest-products-and-theirutilization; Furniture-manufacture-drying-chair-blanks; Seasoning-; Seasoning-restraint-to-preventdistortion
CAB: OF Forestry-Abstracts 1963 024-01321
UD: 9110
AN: 2401321
DC: ODC836; ODC847

648 of 788
TI: Furniture woods. No. 42-Karri, Eucalyptus diversicolor.
AU: Hartwig,-GLF
SO: 1962, Timber, Cape Town 4 (10), 1962 (13).
PY: 1962
LA: English
AB: Details of structure, colour, and markings, weight and strength, seasoning, durability, workingand finishing properties, uses, and countries of origin.
DE: Eucalyptus-diversicolor; Forest-products-and-their-utilization; Furniture-manufacture-timbersfor; Wood-information-on-particular-species
CAB: OF Forestry-Abstracts 1963 024-05460
UD: 9110
AN: 2405460
DC: ODC810; ODC836

649 of 788
TI: Synchronization of machines in automatic lines for producing furniture parts.
OT: O sinhronizacii stankov v avtomaticeskih linijah dlja obrabotki detalej mebeli.
AU: Sanev,-VI
SO: 1960, Derev. Prom. 9 (12), 1960 (11-2). P.R. [Cf. F.A. 22 Nos. 3690-1.].
PY: 1960
LA: Russian
DE: Furniture-manufacture-automation
CAB: OF Forestry-Abstracts 1962 023-01217
UD: 9110
AN: 2301217
DC: ODC832; ODC836

650 of 788
TI: Technical standardization of work on automatic and semi-automatic lines in the furnitureindustry.
OT: Tehniceskoe normirovanie truda na avtomaticeskih i poluavtomaticeskih linijah v mebel'nojpromyslennosti.
AU: Altuhova,-EK
SO: 1961, Lesn. Z., Arhangel'sk 4 (1), 1961 (141-7).
PY: 1961
LA: Russian
AB: Establishes methods of determining work norms in automatic and semi-automatic furnitureproduction lines.
DE: Furniture-manufacture-automation
CAB: OF Forestry-Abstracts 1962 023-01218
UD: 9110
AN: 2301218
DC: ODC832; ODC836

651 of 788
TI: Developments in handling in the furniture industry in the U.S.S.R. and Germany.
OT: L'evolution des manutentions dans les industries du meuble en Russie et en Allemagne.
SO: 1960, Rev. Bois Appl. 15 (1), 1960 (17-22).
PY: 1960
LA: French
AB: Presents diagrams of conveyor systems, material-handling equipment, and production-lineorganization in furniture factories in the U.S.S.R. and Germany.
DE: Furniture-manufacture-conveyor-systems; Germany,-Eastern-furniture-manufacture; USSR-furnituremanufacture
GE: Germany-; Eastern-;USSR-
CAB: OF Forestry-Abstracts 1962 023-01242
UD: 9110
AN: 2301242
DC: ODC836

652 of 788
TI: Chipboard hints.
SO: 1961, F.D.C. Newsletter, London No. 26, 1961 (2-3).
PY: 1961
LA: English
AB: Briefly summarizes hints (from mainly German and French sources) on the optimum working speeds,angles, etc. for using chipboard in furniture manufacture. The value of carbide-tipped tools isstressed, and detailed suggestions made for work with circular saws, spindle moulders, routersand drills. Veneering techniques are also described, and the precautions necessary, especiallyin veneering panels with solid lippings (to avoid "show through"), are discussed.
DE: Chipboard-uses-furniture; Furniture-manufacture-use-of-chipboard
CAB: OF Forestry-Abstracts 1962 023-01243
UD: 9110
AN: 2301243
DC: ODC836; ODC862

653 of 788
TI: The present state of gluing techniques in the German furniture industry.
OT: Uber den gegenwartigen Stand der Verleimtechnik in der deutschen Mobelindustri.
AU: Leise,-H
SO: 1961, Holz Roh- u. Werkstoff 19 (4), 1961 (155-9) 6 refs.
PY: 1961
LA: German
LS: German, English
DE: Furniture-manufacture-gluing-technique; Glues-and-gluing; Gluing-in-furniture-industry; Jointsnailed-
CAB: OF Forestry-Abstracts 1962 023-02753
UD: 9110
AN: 2302753
DC: ODC8248; ODC836

654 of 788
TI: Accelerated methods of gluing wood.
OT: Uskorennye sposoby skleivanija drevesiny.
SO: 1960, 1960. pp. 182. Goles-bumizdat, Moscow & Leningrad.
PY: 1960
LA: Russian
AB: A collection of papers: The use of accelerated gluing of wood in the furniture industry (V. A.Sizov); Investigation of the processes of gluing furniture parts with RF heating (A. K.Petrov); A trial with RF for gluing furniture parts (N. M. Polikasev); Intensification of thegluing processes in veneering (M. Z. Ljamina) [by hot-pressing at 150,degrees)C.]; Using RFinstallations for gluing wood (E. P. Parini); Foreign trials with RF in woodworking (V. I.Burkov); Veneering furniture parts with electric contact

heaters (V. Ju. Basinskij); Equipmentwith contact electric heating for accelerated veneering and gluing in furniture production (A.M. Strongin) [covering both Soviet and foreign equipment]; Synthetic glues for rapid gluing ofwood (R. Z. Temkina); Technical schedules for gluing wood with RF heating (T. A. Selina); Usingaccelerated gluing of wood in the building industry (A. B. Gubenko); The work of the CentralResearch Institute for Building Design in the gluing of wood with RF heating (L. M. Koval'cuk);Equipment for longitudinal bonding of wood (S. A. Gol'denberg) [i.e. glued end-jointing]; Arational way of gluing tenon joints in windows (I. A. Gol'dman); Accelerated glued end-jointing(A. N. Krejndlin); Accelerated gluing of wood with convection heating (E. N. Baskakin).
DE: Furniture-manufacture-gluing-technique; Glues-and-gluing; Gluing-accelerated; Gluing-dielectricheating
CAB: OF Forestry-Abstracts 1962 023-02762
UD: 9110
AN: 2302762
DC: ODC8248; ODC836

655 of 788
TI: Automatic lines for all the various operations on pieces used in furniture.
OT: Avtomaticeskie linii dlja povtornoj obrabotki mebel'nyh scitov.
AU: Buhtijarov,-VP
SO: 1961, Derev. Prom. 10 (3), 1961 (3-6).
PY: 1961
LA: Russian
AB: Describes an automated line for handling pieces 40-170 X 35-90 X 1-8 cm. in aMoscow furniture factory. The pieces pass along the line at a rate of 32 sec./piece. Fourworkers are needed.
DE: Furniture-manufacture-automation; Sawmills-automation
CAB: OF Forestry-Abstracts 1962 023-02805
UD: 9110
AN: 2302805
DC: ODC832; ODC836

656 of 788
TI: Testing the strength of parts of bentwood chairs, made from Beech branches and tops.
OT: Ispytanija procnosti detalej gnutyh stul'ev, izgotovlennyh iz bukovyh suc'ev i versin.
AU: Skirja,-TM
SO: 1960, Derev. Prom. 9 (10), 1960 (11). 3 refs. P.R. [Cf. F.A. 22 No. 3568.].
PY: 1960
LA: Russian
DE: Fagus-sylvatica-incl.-F.-moesiaca-wood-furniture; Furniture-manufacture-testingstrength;Strength-of-bentwood-chairs
CAB: OF Forestry-Abstracts 1962 023-02806
UD: 9110
AN: 2302806

DC: ODC8127; ODC836

657 of 788
TI: Working Teak.
OT: Teakholz-Verarbeitung.
AU: Munz,-W
SO: 1960, 1960. pp. 74. Price DM. 12. From review in Holzforschung, Berlin 14 (4), 1960 (128). [G.]. Verlag und Holzfachbuchdienst Holz, Merling b. Augsburg.
PY: 1960
LA: German
AB: A practical manual intended for furniture manufacturers using Teak.
DE: Tectona-grandis-wood-furniture-making
CAB: OF Forestry-Abstracts 1961 022-02451
UD: 9110
AN: 2202451
DC: ODC836

658 of 788
TI: Impressions of the Soviet furniture industry.
AU: Letsky,-BM
SO: 1960, Wood 25 (12), 1960 (498-9).
PY: 1960
LA: English
AB: Based on a visit to 8 factories. Some of the factories and their products are described,including some techniques in advance of British and/or American practice.
DE: USSR-furniture-industry
GE: USSR-
CAB: OF Forestry-Abstracts 1961 022-03711
UD: 9110
AN: 2203711
DC: ODC836

659 of 788
TI: Timber-Bamboo furniture.
AU: Rehman,-MA; Kukreti,-DP
SO: 1959, J. Timb. Dryers' Pres. Ass. India 5 (4), 1959 (8-10 + 5 photos). 3 refs.
PY: 1959
LA: English
AB: [Cf. F.A. 19 No. 4910.] Discusses briefly the preservative treatments, seasoning, and physicalproperties of the species used, viz. Dendrocalamus strictus, Bambusa polymorpha and B. nana,and their importance in furniture manufacture. Mention is also made of the use of Mangiferaindica.
DE: Bamboo-furniture; Bambusa-nana; Bambusa-polymorpha; Dendrocalamus-strictus; Mangiferaindica-; Preservation of-bamboo; Seasoning-of-bamboo
CAB: OF Forestry-Abstracts 1961 022-03712

UD: 9110
AN: 2203712
DC: ODC836; ODC841; ODC847; ODC8928

660 of 788
TI: Beech for furniture.
AU: Graham.PH
SO: 1960, Beech Utiliz. Ser. Ntheast. For. Exp. Sta. No. 20, 1960. pp. 16. 12 refs.
PY: 1960
LA: English
AB: Discusses the uses of Fagus grandifolia in furniture making.
DE: Fagus-grandifolia-wood-furniture
CAB: OF Forestry-Abstracts 1961 022-03713
UD: 9110
AN: 2203713
DC: ODC836

661 of 788
TI: The use of particle boards for finishing off room and making furniture.
OT: Primenenie drevesnostruzecnyh plit dlja otdelki pomescenij i izgotovlenija mebeli.
AU: Nikolaev,-AP
SO: 1960, Trud. Inst. Lesohoz. Probl., Riga No. 18, 1960 (177-82).
PY: 1960
LA: Russian
AB: A general account of various uses of particle boards in the building and furniture industriesin the U.S.S.R., e.g. for facing walls, making parquet flooring, ceilings, furniture, etc., andalso of some techniques in using the boards, e.g. jointing, edging, colouring etc.
DE: Buildings-and-their-construction-use-of-chipboard; Chipboard-; Chipboard-uses-furniture; Fibreboard-
CAB: OF Forestry-Abstracts 1961 022-03861
UD: 9110
AN: 2203861
DC: ODC8331; ODC836; ODC862

662 of 788
TI: Borer control in plywood.
SO: 1959, Rep. Dep. Sci. Industr. Res. N.Z. 1958/59 1959 (18).
PY: 1959
LA: English
AB: Infestation with Anobium punctalum is a major cause of wood deterioration in New Zealand, andplywood is particularly susceptible. Since pretreatment of veneers with preservative has provedimpracticable, an investigation was begun in 1954 to determine the effectiveness of residualcontact insecticides incorporated in the glue line. A series of 3-ply panels of Kahikatea[Podocarpus dacrydioides] veneer, 1/16 and 1/10 in. thick

were prepared, using casein,urea-formadehyde and phenol-formaldehyde resins in which dieldrin was included at 9 ratesbetween 0.025% and 4% of glue weight. These, together with a comparable set of panels withoutdieldrin, were exposed to Anobium attack, first in the 1954-55 season and again in subsequentseasons. To date, only the untreated panels have become infested, and manufacturers have beenrecommended to incorporate 0.25% dieldrin in glue for plywood. The test panels will continue tobe exposed to borer attack annually in order to determine the expected life of the treatment.
DE: Borers,-wood-in-plywood; Furniture-beetles; Glues-and-gluing; Glues-addition-ofinsecticides; Podocarpus-dacrydioides
CAB: OF Forestry-Abstracts 1960 021-01044
UD: 9110
AN: 2101044
DC: ODC8248; ODC841; ODC8452

663 of 788
TI: Toxicity of some arsenical wood-preservatives to the common house borer Anobium punctatum deGeer.
AU: Harrow,-KM
SO: 1959, N.Z. J. Sci. 1959 2 (2), (208-11). 2 refs.
PY: 1959
LA: English
AB: Tests of the toxicity to larvae of Boliden S 25, Tanalith C and U, and a stock solutioncontaining 1.0% As205, applied to test blocks of sapwood of Podocarpusdacrydioides, showed that the toxicity of the three commercial preservatives was proportionalto their As content and that the other elements present (Cr, Cu, Zn, F and dinitrophenol)neither contributed to their toxicity, nor reduced the availability of As in the wood. Larvaewere able to survive at retentions of 0.01%, As205, on an oven dry wood basis,but retentions of 0.018% prevented their development.
DE: Furniture-beetles; Podocarpus-dacrydioides; Preservation,-wood; Preservative-treated-wood-toxicityto-borers; Preservatives,-wood-arsenical; Preservatives,-wood-testing-toxicitY
CAB: OF Forestry-Abstracts 1960 021-01083
UD: 9110
AN: 2101083
DC: ODC841; ODC8452

664 of 788
TI: Insects destroying timber structures on water.
OT: Uwagi o owadach niszczacych drewniane urzadzenia wodne.
AU: Dominik,-J
SO: 1959, Sylwan 1959 103 (4), (49-52).
PY: 1959
LA: Polish
LS: Russian, English
AB: Briefly describes the main pests attacking bridges etc. on the Lodz plateau and in the Vistulabasin. Chief of these were: for structures under water, Glyptotendipes gripekoveni; forwoodwork at

water level, Nacerda melanura; 20 or 30 cm. above water level-(a) in contact withthe ground, Leptura rubra and species of Cossoninae, and (b) without ground contact, Hylotrupesbajulus, Anobium spp., and Ptilinus pectinicornis. From author's summary.
DE: Borers,-wood; Borers,-wood-in-bridges; Bridges-; Decay-in-wood; Furniture-beetles; Longhorn-beetles
CAB: OF Forestry-Abstracts 1960 021-01124
UD: 9110
AN: 2101124
DC: ODC8338; ODC8452

665 of 788
TI: Soft rot in Beech - its influence on furniture beetle [Anobium punctatum] attack.
AU: Bletchly,-JD
SO: 1959, Timb. Technol. 1959 67 (2241), (295, 297-9).
PY: 1959
LA: English
AB: In continued work [cf. F.A. 15 No. 854], samples of Beech sprayed with a spore suspension ofChaetomium globosuin were used. Results indicated that soft-rotted wood may allow greaterlarval survival, faster larval growth and possibly greater case of initial larval penetrationthan white- or brownrotted wood. These findings are compared with those of Fisher [cf. F.A. 2,p.304; 3, p. 223).
DE: Borers,-wood; Borers,-wood-effect-of-soft-rot; Borers,-wood-in-furniture; Decay-in-wood; Decayin-wood-'soft-rot'; Decayed-wood-effect-on-borers; Fagus-sylvatica-incl.-F.-moesiaca-woodborers; Furniture-beetles; Soft-rot
CAB: OF Forestry-Abstracts 1960 021-01126
UD: 9110
AN: 2101126
DC: ODC8442; ODC8452

666 of 788
TI: Experiments in the control of A. punctatum with 'symbionticides'.
OT: Versuche zur Bekampfung von Anobium punctatum mit Symbionticiden.
AU: Behrenz,-W; Technau,-G
SO: 1959, Z. angew. Ent. 1959 44 (1), (22-8). 10 refs.
PY: 1959
LA: German
LS: German, English
AB: The authors discuss the potential advantages of methods-e.g. high selectivity-that aim atdestroying microorganisms on which the pests concerned depend for their metabolism, byantibiotics or similar substances, citing experiments with termites and other insects, anddescribe their own experiments with a number of substances used to impregnate Alder and Pinewood on which A. punctatum larvae were reared, in an effort to destroy the yeast cells livingas essential symbionts in the walls of their guts. Of

these, 4-aminobenzole sulphonamide causedmarked deformation in the yeast cells, and a dosage of 2.6 kg./cu.m. wood eliminated thesymbionts of medium-sized larvae in 6 months, causing the larvae to die some time later.Smaller retentions acted more slowly. The method is thought to be of interest as a non-toxicprotection of valuable furniture etc.
DE: Alnus-spp.-wood-borers; Borers,-wood; Decay-in-wood; Furniture-beetles; Insect-pests-of-treescontrol-biological; Pinus-sylvestris-wood-borers
CAB: OF Forestry-Abstracts 1960 021-01127
UD: 9110
AN: 2101127
DC: ODC841; ODC8452

667 of 788
TI: The protection of works of art in carved wood from the attacks of wood-eating insects.
AU: Deschiens,-R; Coste,-C
SO: 1957, Museum (U.N.E.S.C.O.), Paris 1957 10 (1), (55-9). From abstr. in Prev. Deterior. abstr. 16(10), 1959 (Wood 102).
PY: 1957
LA: French
AB: Describes species and characteristics of the insects concerned (mainly Anobiidae, Lyctidae andCerambycidae), and gives detailed instructions for killing existing infestations and preventingtheir recurrence.
DE: Borers,-wood; Borers,-wood-in-wood-carvings; Decay-in-wood; Furniture-beetles; Longhornbeetles-; Powder-post-beetles
CAB: OF Forestry-Abstracts 1960 021-01129
UD: 9110
AN: 2101129
DC: ODC841; ODC8452

668 of 788
TI: The major insect pests of timber and lumber in West Africa.
AU: Jones,-T
SO: 1959, Tech. Bull. W. Afr. Timb. Borer Res. Unit 1959 No. 1. pp. 20 + 15 photos. 8 refs.
PY: 1959
LA: English
AB: Deals with ambrosia, longhorn and powder-post beetles, timber attacked and the nature of thedamage, preventive measures and their toxic hazards.
DE: Borers,-wood; Decay-in-wood; Furniture-beetles; Longhorn-beetles; Storage-logs-protectivetreatment; West-Africa-wood-borers
GE: West-Africa
CAB: OF Forestry-Abstracts 1960 021-01130
UD: 9110
AN: 2101130
DC: ODC34; ODC8452

669 of 788
TI: Some investigations into the susceptibility of Corsican and Scots Pines and of European Oak toattack by the common furniture beetle, Anobium punctatum Deg. (Col. Anobiidae).
AU: Bletchly,-JD; Farmer,-RH
SO: 1959, J. Inst. Wood Sci. 1959 No. 3, (2-20). 30 refs. [Cf. F.A. 21 No. 1126].
PY: 1959
LA: English
AB: [Cf. F.A. 21 No. 1126.] Reviews literature on the nutritional value of wood to A. punctatum,which shows that marked zoning effects exist in the sapwood (s.w.) of many species, and thatfreshly seasoned timber is probably more nutritive than wood long in service or in store. Toexplain the view commonly held in Britain, that Anobium attacks only older wood, studies weremade in which single logs of Corsican and Scots Pine, and European Oak were submitted tochemical analysis. A decreasing N gradient from the periphery inwards was detected at the buttend, and less N content in the outer s.w. zone at the crown end than at the butt end inCorsican and Scots Pine. The distribution of nitrogenous substances is probably more importantthat the resin content in determining the rate of gain in larval weight, and the removal ofresin from Scots Pine and of tannin from European Oak proved beneficial to larval nutrition.Experiments with wood extracted with water indicated that, besides being a cell-wall feeder,the insect also utilizes cell contents, which may account for the higher nutritive value offreshly seasoned wood. The lesser susceptibility of kiln dried than air dried Scots Pine s.w.probably results from chemical changes in cell contents after kiln drying. More detailedbiochemical studies are needed to clarify the role of wood constituents, particularly the formsin which N is present or available, and the significance of vitamins (if they occur). Fromauthors' summary.
DE: Borers,-wood; Borers,-wood-effect-of-wood-extractives; Furniture-beetles; Pinus-nigra-var.calabrica-wood-borers; Pinus-sylvestris-wood-borers; Quercus-robur-s.l.-wood-borers; Woodchemistry-relation-to-borer-attack; Wood-extractives-effect-on-insect-attack
CAB: OF Forestry-Abstracts 1960 021-02481
UD: 9110
AN: 2102481
DC: ODC813; ODC814; ODC8452

670 of 788
TI: Investigation of the efficiency of drying wood in [the form of] planks and blanks.
OT: Issledovanie effektivnosti suski drevesiny v doskah i v zagotovkah.
AU: Jasinskij,-VS
SO: 1959, Derev. Prom. 1959 8 (6), (14-6). 1 ref.
PY: 1959
LA: Russian

AB: Softwood and Beech to be used in making furniture were kiln-dried as (a) planks, and (b)blanks, and the yields of furniture parts, rejects in seasoning, and the costs of making thefurniture parts were determined for both methods, and compared. Yields of furniture parts weregreater from (a) than from (b), especially with Beech. Seasoning costs were less for (b) thanfor (a), the difference being greater with Beech than with softwoods. Total costs per unitvolume of finished furniture parts were 19.9 % (softwoods) and 24.6 % (Beech) less for (a) thanfor (b).
DE: Fagus-sylvatica-incl.-F.-moesiaca-wood-seasoning-kiln; Seasoning-; Seasoning-of-furnitureblanks
CAB: OF Forestry-Abstracts 1960 021-02493
UD: 9110
AN: 2102493
DC: ODC847

671 of 788
TI: The common furniture beetle [Anobium punctatum].
SO: 1959, Leafl. For. Prod. Res., Lond. 1959 No. 8 (rev.). pp. 111. 9 refs. [Cf. F.A. 16 No. 4711].
PY: 1959
LA: English
AB: [Cf.FA 16 No. 4711.] Slightly expanded to include a section dealing with recognition of A.punctatum attack.
DE: Borers,-wood; Furniture-beetles
CAB: OF Forestry-Abstracts 1960 021-05069
UD: 9110
AN: 2105069
DC: ODC8452

672 of 788
TI: Physical and mechanical properties of particle boards.
OT: Fiziko-mehaniceskie svojstva drevesno-struzecnyh plit.
AU: Darda,-AF
SO: 1960, Derev. Prom. 1960 9 (1), (8-10).
PY: 1960
LA: Russian
AB: From the results of tests in 1959, compares the properties o Bartrev boards, two otherchipboards, a veneered chipboard, and coreboard, all produced by Soviet factories. The testswere aimed a fixing standards for boards to be used in furniture production. I is concludedthat plain chipboards should have the followin properties: density, 0.65 ± 0.1 g./c.c.;static bending strength not less than 100 kg./sq. em.; shear strength, not less tha 8kg./sq. cm.; modulus of elasticity, not less than 12,000 kg./sq cm.; screwholdingcapacity-face ,not less than)6, edge not less tha 4 kg./sq. mm.; swelling (in thickness)after 24 hr. in water, no more than 30%, swelling (in thickness) after 28 days in air a 100%r.h. and 20 ° C., not more than 8%.
DE: Chipboard-; Chipboard-standards; Chipboard-strength Chipboard-testing; Chipboard-uses-furniture
CAB: OF Forestry-Abstracts 1960 021-05120

UD: 9110
AN: 2105120
DC: ODC862

673 of 788
TI: Gluing units of bentwood with kerfs, by R.F. heating.
OT: Skleivanie gnuto-propil'nyh detalej v pole tokov vysokoj castoty.
AU: Petrov,-AK
SO: 1958, Derev. Prom. 1958 7 (3), (1-3).
PY: 1958
LA: Russian
LS: Russian
AB: Gives the results of experiments which provided knowledge of the time necessary to cure unitsof various sizes with the urea-formaldehyde resins M-70, MF-17 and MFS-1. [Cf. F.A. 19 No.4856.]
DE: Bending-wood-equipment-and-methods-with-kerfs; Furniture-manufacture-bending-withkerfs; Glues-and-gluing; Glues-synthetic-resins; Glues-synthetic-resins-urea; Gluing-bentwoodwith-kerfs
CAB: OF Forestry-Abstracts 1959 020-01072
UD: 9110
AN: 2001072
DC: ODC8248; ODC827

674 of 788
TI: Bent and glued pieces of circular shape.
OT: Gnuto-kleenye detali zamknutogo kontura.
AU: Sokolovsku,-FM
SO: 1957, derev. Prom. 1957 6 (9), (7 - 9).
PY: 1957
LA: Russian
AB: Describes a process used to construct chair-seat frames, hoops etc. from bent and gluedlaminae.
DE: Bending-wood-combined-with-pressing; Furniture-manufacture-bending; Furniture-manufacture-use-ofglued-laminated-members
CAB: OF Forestry-Abstracts 1959 020-01087
UD: 9110
AN: 2001087
DC: ODC827; ODC8322; ODC836

675 of 788
TI: Calculation of pressures in pressing curvilinear surfaces.
OT: Rascet davlenija pri zapressovke krivolinejnyh poverhnostej.
AU: Kuznecov,-MA
SO: 1958, Derev. Prom. 1958 7 (4), (3-5).
PY: 1958
LA: Russian
AB: Deals with surfaces of glued laminae, plywood etc. of various

configurations, as used in boat-and coach-building, furniture manufacture etc.
DE: Furniture-manufacture-bending; Furniture-manufacture-use-of-glued-laminated-members; Vehiclebodies-
CAB: OF Forestry-Abstracts 1959 020-01088
UD: 9110
AN: 2001088
DC: ODC827; ODC8322; ODC836; ODC838

676 of 788
TI: The technique of preparing the rear legs of chairs from bentwood with kerfs.
OT: O tehnologii izgotovlenija gnuto-propil'nyh zadnih nozek stula.
AU: Polikasev,-NM; Fil'kin,-AI
SO: 1957, Derev. Prom. 1957 6 (9), (5-7).
PY: 1957
LA: Russian
AB: Describes the technique [cf. F.A. 19 No. 4856] and compares the costs of the legs, the rawmaterial, and labour, for 6 different methods of manufacture.
DE: Bending-wood-equipment-and-methods-with-kerfs; Furniture-manufacture-bending-with-kerfs
CAB: OF Forestry-Abstracts 1959 020-01122
UD: 9110
AN: 2001122
DC: ODC827; ODC836

677 of 788
TI: Dimensional changes of unit pieces of furniture and assembled furniture during long journeys.
OT: Izmenenie razmerov detalej i uzlov mebeli pri dal'nyh perevozkah.
AU: Voronov,-VA
SO: 1958, Derev. Prom. 1958 7 (1), (16-7).
PY: 1958
LA: Russian
LS: Russian
AB: On the basis of measurements of dimensional changes of pieces of Beech furniture sent fromMaikop (N. Caucasus), and of Pine from Perm (N.E. region of the U.S.S.R.), in autumn andwinter, in various kinds of packing, recommendations are made on the most suitable packingmaterial and crates for long journeys.
DE: Furniture-manufacture-finishing-and-packing; Shrinkage-and-swelling-of-wood-of-furniture
CAB: OF Forestry-Abstracts 1959 020-01123
UD: 9110
AN: 2001123
DC: ODC8122; ODC836

678 of 788

TI: Bent wood in the furniture industry.
OT: Gebogene Holzer in der Mobelindustrie.
AU: Fessel,-F
SO: 1958, Holz Roh- u. Werkstoff 1958 16 (2), (64-8). 6 refs.
PY: 1958
LA: German
LS: German, English
AB: Discusses the historical development of wood bending techniques, methods in use today, and therange of uses of bentwood.

DE: Bending-wood; Furniture-manufacture-bending; Silviculture-
CAB: OF Forestry-Abstracts 1959 020-02395
UD: 9110
AN: 2002395
DC: ODC827; ODC836

679 of 788
TI: Investigation of the processes in making furniture parts of bentwood with kerfs.
OT: Issledovanie processov izgotovlenija gnutopropil'nyh detalej.
AU: Strongin,-AM; Sepselevic,-VL
SO: 1958, Derev. Prom. 1958 7 (5), (4-5). P.R. [Cf. F.A. 19 No. 4856].
PY: 1958
LA: Russian
AB: From the results of investigations on furniture parts of bentwood of cross-sections19 X 19 to 52 X 82 mm. with longitudinal kerfs [cf. F.A. 19 No. 4856], tableswere drawn up showing (1) the optimum thickness of inserts for the parts, for various radii ofcurvature and for various wood species, and (2) the optimum number of kerfs for parts of thevarious dimensions examined. It was found that 10-12 days after the parts had been bent, theyshowed an inward deflection of 3-4 ° , depending on the radius of curvature and on thedistance between kerfs. Conclusions were also reached on the optimum gluing schedule, andmethod of finishing the parts.
DE: Bending-wood-equipment-and-methods-with-kerfs; Furniture-manufacture-bending-withkerfs; Silviculture-
CAB: OF Forestry-Abstracts 1959 020-02396
UD: 9110
AN: 2002396
DC: ODC827; ODC836

680 of 788
TI: The furniture industry in Germany.
OT: Regards sur les industries de l'ameublement en Allemagne.
SO: 1957, Cah. Centre tech. Bois 1957 No. 24. pp. 21.
PY: 1957
LA: French
AB: Provides information on the location of the main centres, and discusses techniques,organization, and economic and social questions.
DE: Furniture-manufacture; Silviculture-;

Germany,-Western-furniture-industry
GE: Germany-; Western-
CAB: OF Forestry-Abstracts 1959 020-02444
UD: 9110
AN: 2002444
DC: ODC79; ODC836

681 of 788
TI: Short log bolter for furniture stock.
AU: Redman,-GP-and-Willard, R.
SO: 1957, Bulletin, Department of Engineering Research, North Carolina State College, Raleight, N.C.1957. No. 62, pp. v + 56 + 30 tbls. 1 ref.
PY: 1957
LA: English
AB: Presents the results of experiments in 1954/56 at N.C. State College in producing furniturestock from short logs (bolts) by sawing on a short-log bolter saw, the species tested beingPoplar [Liriodendron tulipifera?], Sweet Gum and Oak, with the following conclusions: (1) Totalgreen yield can be accurately predicted from diagrams which use specific values for (a) themethod of sawing, (b) green thickness and (c) width of saw kerf. (2) The effect of log diam. ontotal green yield can be accurately predicted. (3) Length of the log apparently had no effecton yield. (4) Quarter sawing showed a higher yield than flat sawing for stock clear on oneface. (5) Low-grade Poplar logs showed a much lower yield of stock clear on one face than Oaklogs or Sweet Gum logs. (6) Quarter sawing of logs of Oak and Sweet Gum showed much lowerdrying and ripping losses than plain sawing. From authors' summary.
DE: Furniture-manufacture-conversion-of-logs-for; Liquidambar-styraciflua-woodsawmilling; Liriodendron-tulipifera-wood-sawmilling; Quercus-spp.-wood-sawmilling; Sawmillingconversion-of-small-logs; Sawmilling-short-logs; Sawmills-; Saws,-milling-bolter
CAB: OF Forestry-Abstracts 1958 019-01019
UD: 9110
AN: 1901019
DC: ODC822; ODC8321; ODC836

682 of 788
TI: Automatic machining in furniture manufacture.
AU: Johnson,-ES
SO: 1957, Pap. Amer. Soc. mech. Engrs. 1957 No. 57-WDI-8, pp. 4.
PY: 1957
LA: English
AB: A brief review of the history of mechanization in some phases of furniture manufacture, withspecial reference to mechanization and mechanical handling in machining parts after they havebeen cut to rough dimensions in the rough mill.
DE: Furniture-manufacture-automatic-sanding
CAB: OF Forestry-Abstracts 1958 019-01044
UD: 9110

AN: 1901044
DC: ODC836

683 of 788
TI: Malayan timbers for furniture.
AU: Menon,-PKB; Burgess,-HJ; Wyatt-Smith,-J
SO: 1957, Malay. Forester 1957 20 (3), (152-62).
PY: 1957
LA: English
AB: Discusses desirable properties and selection of suitable timbers, gives tables showing someworld timbers used and some Malayan timbers suitable for furniture, with notes on theirproperties, and indicates the availability of Malayan species listed.
DE: Furniture-manufacture-timbers-for; Malaya-timbers
GE: Malaya-
CAB: OF Forestry-Abstracts 1958 019-01045
UD: 9110
AN: 1901045
DC: ODC836

684 of 788
TI: The kiln drying of homegrown Beech. A comparison between the drying of boards and the drying ofdimension stock.
AU: Johnston,-DD
SO: 1956, Timb. Technol. 1956 64 (2210), (631-3).
PY: 1956
LA: English
AB: Results of exploratory tests with 11/4-in. boards and curved 37 X 1 X 1-in.dimension stock (for chair legs) show that the latter can be kiln-dried under the conditions ofthe tests in roughly half the time required to dry boards of the same thickness. For a givenkiln size the output of useable dimension stock per unit time is considerably higher when thetimber is band-sawn before drying.
DE: Fagus-sylvatica-wood-seasoning-kiln; Furniture-manufacture-seasoning; Seasoning-
CAB: OF Forestry-Abstracts 1958 019-01111
UD: 9110
AN: 1901111
DC: ODC836; ODC847

685 of 788
TI: Processing of chipboards in furniture construction.
OT: Die Verarbeitung der Holzspanplatte im Mobelbau.
AU: Globs,-H; Fenzahn,-F
SO: 1956, Holz Roh- u. Werkstoff 1956 14 (2), (68-74). 5 refs.
PY: 1956
LA: German
LS: German
AB: Chipboards for furniture should be 17-25 mm. thick. The basic principles of mechanical workingwith chipboards are given. Edges.

which are the most liable to damage, should be protected byglued-on elements. Processing machines can be the same as in woodworking, but the tools shouldhave hardened tips. Dowels are important as a means of joining the chipboards.
DE: Chipboard-; Chipboard-furniture; Fibreboard-; Furniture-manufacture-seasoning; Furnituremanufacture-use-of-chipboard
CAB: OF Forestry-Abstracts 1958 019-01160
UD: 9110
AN: 1901160
DC: ODC836; ODC862

686 of 788
TI: Malayan timbers for furniture.
AU: Menon,-PKB; Burgess,-HJ
SO: 1957, Trade Leafl. Malay. For. Serv. 1957. No. 30, pp. 10. Price 1s. 3d.
PY: 1957
LA: English
AB: Gives tabulated data on 33 Malayan species, with some Australian, British and U.S. species forcomparison and notes on availability by J. Wyatt-Smith. [Cf. F.A. 19 No. 1045.]
DE: Furniture-manufacture-timbers-for; Malaya-timbers
GE: Malaya-
CAB: OF Forestry-Abstracts 1958 019-02399
UD: 9110
AN: 1902399
DC: ODC836

687 of 788
TI: Variation throughtout the year in the moisture content of wood manufactured into furniture andjoinery.
AU: Wyk,-JH-Van.
SO: 1957, J. S. Afr. For. Ass. 1957 No. 30, (40-3). 1 ref.
PY: 1957
LA: English
LS: English, Afrikaans
AB: The general order of increase in deviations from mean equilibrium moisture content (e.m.c.) forwinter-warmed rooms and verandah exposures at Pretoria of waxed, and varnished and waxed wood,was Pterocarpus angolensis (the most stable), Eucalyptus diversicolor, Ocotea bullata,Podocarpus elongata, Pinus patula, Eucalyptus saligna and Pinus pseudostrobus. The range ofthese species in e.m.c. varied from 6.1 to 10.7% (winter) and 6.2 to 12.7% (summer). A moisturecontent of 10% is recommended for furniture in S. Africa generally.
DE: Eucalyptus-saligna-wood-equilibrium-moisture-content; Eucalyptus diversicolor; Furnituremanufacture-equilibrium-m.c.; Moisture-wood-equilibrium-m.c.; Moisture-woodvariation-seasonal; Ocotea-bullata; Pinus-patula-wood-moisture-content,-equilibrium; Pinuspseudostrobus-; Podocarpus-elongata; Pterocarpus-angolensis; Wood,-physical-and-mechanicalproperties-of

CAB: OF Forestry-Abstracts 1958 019-03410
UD: 9110
AN: 1903410
DC: ODC8122; ODC836

688 of 788
TI: The 6th German furniture fair, Cologne 1958.
SO: 1958, Holz-Zbl. 1958 84 (15/16), (176-245).
PY: 1958
LA: German
AB: A special number, including a list of exhibitors, notes on fashion trends in veneers, andarticles on: Imbuia (Phoebe porosa) (W. Boerhave-Beekman); the manufacture of moulded chipwoodparts (E. E. Munk); lacquer drying (E. Fessel); automatic belt-sanders (Es); furniturelacquers-properties, working processes, testing (Grips); and polyester films (W. Powolka).
DE: Finishes,-wood; Furniture-manufacture; Phoebe-porosa
CAB: OF Forestry-Abstracts 1958 019-03537
UD: 9110
AN: 1903537
DC: ODC8291; ODC836

689 of 788
TI: Utilie drawer sides. An investigation into movement under varying conditions.
AU: Keer,-GA
SO: 1958, Wood 1958 23 (4), (173-4).
PY: 1958
LA: English
AB: Investigations of stability were made on specimens of kiln-dried Entandrophragma utile 9/16 in.thick and 4, 6 and 8 in. wide, which were marked with 3 parallel lines at right angles to thegrain and kept under cover in an open shed. The m.c. was measured by moisture meter, and thelines with a steel rule to the nearest 1/64 in. every week for a year. Changes in m.c. werefairly rapid, and closely followed changes in weather conditions. The average amount ofexpansion and contraction of the specimens at first followed the moisture gradients veryclosely, but the wood tended to become rather more stable as the investigation progressed.
DE: Entandrophragma-utile; Furniture-manufacture; Shrinkage-and-swelling-of-wood; Wood,-physical-andmechanical-properties-of
CAB: OF Forestry-Abstracts 1958 019-04774
UD: 9110
AN: 1904774
DC: ODC8122; ODC836

690 of 788
TI: Furniture made from bentwood with kerfs.
OT: Mebel' is gnuto-propil'nyh elementov.

AU: Sizov,-VA; Polikasev,-N, M.
SO: 1957, Derev. Prom. 1957 6 (2), (3-4).
PY: 1957
LA: Russian
AB: A series of parallel saw-cuts ca. 1.5-2 mm. apart is made along that part of a piece of woodwhich is to be bent to form a component of a piece of furniture, e.g. a chair leg. Woodeninserts, 0.1-0.2 mm. thinner than the cuts, are slid into them and a glue (preferablyquick-drying) is applied. The piece of wood can then be bent, dry and cold, to the requiredangle; heating accelerates the process. Details of the simple bending mould developed for usewith these constructions are given.
DE: Bending,-wood-equipment-and-methods-with-kerfs; Furniture-manufacture-bending
CAB: OF Forestry-Abstracts 1958 019-04856
UD: 9110
AN: 1904856
DC: ODC827; ODC836

691 of 788
TI: Techniques of assembly in furniture manufacture.
OT: Techniques d'assemblage et de montage dans la fabrication du meuble.
SO: 1957, Cah. Centre tech. Bois 1957. No. 22, pp. 12 + 12 plates.
PY: 1957
LA: French
AB: An illustrated guide to some of the simplest and most reliable methods.
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1958 019-04899
UD: 9110
AN: 1904899
DC: ODC836

692 of 788
TI: Superimposed ornaments made from sawdust.
OT: Nakladnye ukrasenija iz opilok.
AU: Davindenko,-PA; Svarc,-E-Ja.; Baranov,-KG
SO: 1957, Derev. Prom. 1957 6 (8), (22-3).
PY: 1957
LA: Russian
AB: Describes the method of hot-pressing (160-170 ° C.) mixtures of 100 parts (by wt.) ofsawdust of 10% m.c., 100 parts water, 44 parts starch, and 6 parts rosin, into decorativemouldings for furniture, etc., and of finishing the mouldings with varnish, lacquer, etc.
DE: Furniture-manufacture-decorative-mouldings; Plastics-; Sawdust-moulding; Waste-wood,-industrialutilization-plastics
CAB: OF Forestry-Abstracts 1958 019-04902
UD: 9110
AN: 1904902
DC: ODC836; ODC8398; ODC865

693 of 788
TI: Board materials.
SO: 1958, Wood 1958 23 (4), (141-72).
PY: 1958
LA: English
AB: Papers on: Fibreboard for panel work; Fixing with adhesives; Adhesives for fibreboards; Coverstrips; Fibre building boards and fire protection; The insulation of industrial buildings;Enamelled boards; Chipboards in building; Chipboard in furniture; Board materials andaccessories review.
DE: Chipboard-; Chipboard-furniture; Chipboard-uses-building; Fibreboard-fire-risk; Fibreboard-uses
CAB: OF Forestry-Abstracts 1958 019-04986
UD: 9110
AN: 1904986
DC: ODC862

694 of 788
TI: Veneering of shaped details in an autoclave.
OT: Avtoklavnoe fanerovanie profilirovannyh detalei.
AU: Finosin,-AE
SO: 1955, Derev. Prom. 1955 4 (12), (25-6).
PY: 1955
LA: English
AB: Illustrated description of a method of veneering furniture parts of intricate shapes, usingvacuum rubber bags with valves of special design, and an autoclave with a capacity of 3 cu.m.Times required: (1) from glue spreading to application of pressure, ca. 60 min.; (2) pressing(80-100 ° C., 0.7-1 atm.), 15 min., and (3) cooling in the press, 30-60 min.
DE: Bending,-wood-methods; Furniture-manufacture-bending; Furniture-manufacture-use-of-veneer; Gluesand-gluing
CAB: OF Forestry-Abstracts 1957 018-00981
UD: 9110
AN: 1800981
DC: ODC8248; ODC827; ODC836

695 of 788
TI: Veneering furniture with rotary veneer from Birch with wavy grain.
OT: Fanerovanie mebeli luscenym sponom iz svilevatoi berezy.
AU: Moruskin,-GV
SO: 1955, Derev. Prom. 1955 4 (12), (22-4).
PY: 1955
LA: English
AB: In one Leningrad furniture factory only Birch with the most wavy grain (wave length 8-30 mm.)is used as decorative veneer, at thicknesses between 0.8 and 1.15mm. Veneers with very thin(capillary) cracks on the back side are rejected. The moisture content should not exceed 8-10%.The utilization % of wavy Birch veneer averages 10-15% higher than that of Oak veneer. Bestresults

are obtained with urea resin glues.
DE: Betula-alba-s.l.-wood-veneer,-figured; Furniture-manufacture-use-of-veneer; Veneer-decorative
CAB: OF Forestry-Abstracts 1957 018-01035
UD: 9110
AN: 1801035
DC: ODC8248; ODC8322; ODC836

696 of 788
TI: The processing of chipboards in furniture manufacture.
OT: Die Verarbeitung der Holzspanplatte im Mobelbau.
AU: Golbs,-H
SO: 1956, Holz Roh- u. Werkstoff 1956 14 (2), (68-74). 5 refs.
PY: 1956
LA: German
LS: German
AB: Detailed illustrated description of chipboard grades, their dimensional stability, edge-gluing,veneering, sawing, planing, moulding, boring and joining.
DE: Chipboard-; Furniture-manufacture-use-of-chipboard
CAB: OF Forestry-Abstracts 1957 018-03500
UD: 9110
AN: 1803500
DC: ODC836; ODC862

697 of 788
TI: Properties of particle board related to its use in furniture manufacture.
AU: McGee,-LB; McLean,-RA; Carlyle,-AA
SO: 1957, For. Prod. J. 1957 7 (3), (91-5). 7 refs.
PY: 1957
LA: English
AB: A paper based on work by the industrial experimental programme team of North Carolina StateCollege, which has also issued a handbook on the subject. In density, bending and tensilestrength, screw-holding capacity, machinability, and ease of veneering, particle board isgenerally inferior to solid lumber core stock, but superior in hardness, dimensional stability,thermal conductivity and freedom from defects' Some of the problems inherent in the fact thatlower-density boards, desirable for several reasons (e.g. dimensional stability and ease ofveneering), are weaker ir screw-holding capacity and some strength properties, are discussedand some recommendations for screwing and machining made.

DE: Chipboard-; Furniture-manufacture-use-of-chipboard
CAB: OF Forestry-Abstracts 1957 018-04761
UD: 9110
AN: 1804761
DC: ODC836; ODC862

698 of 788

TI: Comparative costs.
SO: 1955, Wood 1955 20 (9), (375-6).
PY: 1955
LA: English
AB: Gives in tables average data collected in 1955 by the Furniture Development Council, London, onthe breakdown of costs of furniture firms participating in the scheme.
DE: Cost-accounting; Furniture-manufacture-costs; Sawmilling-costing; Timber-trade
CAB: OF Forestry-Abstracts 1956 017-00763
UD: 9110
AN: 1700763
DC: ODC79; ODC836

699 of 788
TI: Bending tests.
SO: 1955, Rep. For. Prod. Res. Bd., Lond. 1954 1955 (12 + 1 photo).
PY: 1955
LA: English
AB: Turkey Oak, Hornbeam, Field Maple and Sweet Chestnut all proved to have good bending propertiesif defective material was excluded; so did English-grown Nothofagus obliqua, although goodbending material was scarce in the consignment tested, because of the prevalence of knots. R.F.heating has been used for localized softening of the part to be bent, in the manufacture ofchairs having hairpin-type bends with straight legs; a special heating chamber was made forsoftening this part of the bending blank, along with an improved end-stop device on the bendingmachine. A suitable machine has been designed for bending several sticks for umbrella handlesat the same time.
DE: Acer-campestre-wood-bending-properties; Bending,-wood-tests; Carpinus-betulus-wood-bendingproperties; Castanea-sativa-wood-bending-properties; Furniture-manufacture; Nothofagusobliqua-; Quercus-cerris-wood-bending
CAB: OF Forestry-Abstracts 1956 017-00881
UD: 9110
AN: 1700881
DC: ODC827; ODC835; ODC836

700 of 788
TI: Preservative tests.
SO: 1955, Rep. For. Prod. Res. Bd., Lond. 1954 1955 (36).
PY: 1955
LA: English
AB: Work has continued with the larval-transfer technique, using larvae (1.0-2.5 mg.) of Anobiumpunctatum and newly emerged larvae of Hylotrupes bajulus, and Scots Pine sapwood impregnatedwith fluor-chrome-arsenate at concentrations of 0.5, 0.18, 0.0675 and 0.025%. A minimumretention of 1.4 mg./c.c. of the water-soluble salt was needed to arrest development of A.punctatum at 22 ° C. and 85% relative humidity. First-stage larvae of H. bajulus survivedfor long periods at 25 ° and 75% in blocks treated with 0.25% of the

preservative, but aconcentration of 0.5%, equivalent to a retention of 3.8 mg./c.c., killed these larvae in 12weeks.
DE: Furniture-beetles; Preservation,-wood; Preservation,-wood-against-terrestrialborers; Preservatives,-wood-arsenical; Preservatives,-wood-fluorides; Preservatives,-woodtesting-larval-transfer-method
CAB: OF Forestry-Abstracts 1956 017-00940
UD: 9110
AN: 1700940
DC: ODC841; ODC8452

701 of 788
TI: Investigations on infestation (by Anobium punctatum) in sound wood.
SO: 1955, Rep. For. Prod. Res. Bd., Lond. 1954 1955 (33-4).
PY: 1955
LA: English
AB: Sapwood from freshly felled Corsican Pine was divided into 3 zones and exposed for egg-laying.After 20 months it was found that suitability for larval development decreased from the outerzone inward; these results may be related to a decreasing N gradient from the periphery similarin order to that obtained for larval weight across the 3 zones. Acetone extraction of the outerzone had little effect on susceptibility to attack; prolonged soaking in water at 60 ° C.greatly reduced it, and at 100 had even more effect. The chemical effect of the waterextractions is not fully understood. Results of an egg-laying preference test on English Oakextracted with water at 60 and 100 ° , with acetone and ether, showed that in sapwoodlittle choice is made between extracted materials but that unextracted controls are preferred,whereas in heartwood, extracted material is preferred.
DE: Borers-of-trees-of-timber; Borers-influence-of-wood-extractives-on-attack;Furniturebeetles-; Pinus-nigra-var.-calabrica-wood-borers; Quercus-robur-s.l.-wood-borers; Wood-extractivesirritants
CAB: OF Forestry-Abstracts 1956 017-00963
UD: 9110
AN: 1700963
DC: ODC1457; ODC813; ODC8452

702 of 788
TI: Lyctus: the powder-post beetle (Lyctus brunneus Stephens).
SO: 1955, Pamphl. For. Comm. N.S.W. 1955 No. 12 pp. 8.
PY: 1955
LA: English
AB: A pamphlet indicating methods of recognizing, preventing, and controlling Lyctus damage towood.
DE: Borers-of-trees-of-timber; Furniture-beetles
CAB: OF Forestry-Abstracts 1956 017-00964
UD: 9110
AN: 1700964
DC: ODC8452

703 of 788
TI: Standards of tolerances and shrinkage in the joints of furniture details and elements.
OT: Normativy dopuskov i posadok v soedinenijah detalei i uzlov mebeli.
AU: Iljinskii,-SA; Otlivancik,-AN; Blehman,-AB; Maljceva,-VP
SO: 1955, Derev. Prom. 4 (2), 1955 (8-12).
PY: 1955
LA: Russian
AB: Based on the Soviet standard GOST 6449-53.
DE: Furniture-manufacture-standards; Standards-furniture; Turnery-
CAB: OF Forestry-Abstracts 1956 017-02076
UD: 9110
AN: 1702076
DC: ODC836

704 of 788
TI: The Lymexylidae- another family of pin-hole borers.
AU: Fairey,-KD
SO: 1955, Tech. Notes For. Comm. (Div. Wood Technol.) N.S.W. 8 (3/4), 1955 (15-9). 5 refs.
PY: 1955
LA: English
AB: An illustrated note on the damage and biology of these insects, with a list of the speciesrecorded in Australia (Atractocerus, 4; Hylecoetus, 5; Lymexylon, 1).
DE: Borers-of-trees-of-timber; Furniture-beetles
CAB: OF Forestry-Abstracts 1956 017-02152
UD: 9110
AN: 1702152
DC: ODC1457; ODC8452

705 of 788
TI: The common furniture beetle.
AU: Casimir,-JM
SO: 1955, Aust. For. 19 (1), 1955 (26-34 +2 plates). 16 refs.
PY: 1955
LA: English
AB: Reviews recent work on the life history and control of Anobium punctatum.
DE: Borers-of-trees-of-timber; Furniture-beetles
CAB: OF Forestry-Abstracts 1956 017-02153
UD: 9110
AN: 1702153
DC: ODC8452

706 of 788
TI: A preliminary investigation on the suitability of Norwegian Birch for chipboards for furnituremanufacture.
OT: Eine orientierende Unter-suchung, wie die norwegische Birke

sich als Rohstoff furHolzspanplatten zur Mobelherstellung eignet.
AU: Stemsrud-F
SO: 1955, Norsk Skogind. 1955 9 (11), (417-29).
PY: 1955
LA: German
LS: Norwegian
AB: Preliminary experiments at Brunswick, using freshly-felled Betula pubescens from Norway(diameter after barking 8.13 cm.) showed that: (1) strength of boards made from chips 0.2 and0.4 mm. thick was satisfactory in boards with density = 0.6 g./c.c.; the surfaceappearance and uneven cross-sections of boards from the thicker chips were, however,unsatisfactory; (2) physical properties of the boards improved with increasing amounts ofbinder used in the range tested (5-14% by weight); 5% binder gave unsatisfactory results, butboards made with 8% binder had adequate properties; (3) the addition to the binder of paraffinemulsion reduced swelling in boards made from 0.2-mm. chips without reducing their strengthproperties to an unacceptable level.
DE: Betula-pubescens-wood-chipboards; Chipboard-; Chipboard-use-in-furniture; Furniture-manufacture-useof-chipboard
CAB: OF Forestry-Abstracts 1956 017-02223
UD: 9110
AN: 1702223
DC: ODC836; ODC862

707 of 788
TI: Modern machinery for combined cutting actions.
OT: Die Doppelendbearbeitung mit neuzeitlichen Maschinen.
AU: Es.
SO: 1956, Holz-Zbl. 1956 82 (19/20), 1956 (235-6).
PY: 1956
LA: German
AB: Describes modern machinery, some of it fully automatic, for profiling, mortising, tenoning,boring etc. in furniture manufacture.
DE: Boring-tools-and-machines; Furniture-manufacture-machinery
CAB: OF Forestry-Abstracts 1956 017-03287
UD: 9110
AN: 1703287
DC: ODC823; ODC8321; ODC836

708 of 788
TI: Choosing a hardwood lumber grade for furniture manufacture.
AU: Creighton,-JW
SO: 1956, For. Prod. J. 1956 6 (1), 1956 (11-5). 8 refs.
PY: 1956
LA: English
AB: Analyses factors affecting the relationship between lumber quality and conversion cost. Underpresent manufacturing systems it is possible to process lowgrade lumber into required cuttingsat a lower net unit cost than higher grades. From author's summary.
DE: Furniture-manufacture-timber-for; Grading-lumber

CAB: OF Forestry-Abstracts 1956 017-03352
UD: 9110
AN: 1703352
DC: ODC836; ODC854

709 of 788
TI: Malayan woods for furniture.
AU: Cherrington,-EC
SO: 1956, Malay. Forester 1956 19 (1), 1956 (25-7).
PY: 1956
LA: English
AB: Notes on the species most highly prized or commonly used for furniture (Pterocarpus indicus,Diospyros polyalthioides, Balanocarpus heimii, Shorea spp., Intsia palembanica, Sindora spp.,Melanorrhoea spp., and Gluta spp.).
DE: Balanocarpus-heimii; Diospyros-polyalthioides; Furniture-manufacture-timber-for; Gluta-spp.; Intsiapalembanica-; Melanorrhaea-spp.; Pterocarpus-indicus; Shorea-spp.-wood-for-furniture; Sindoraspp.-; Malaya-timbers
GE: Malaya-
CAB: OF Forestry-Abstracts 1956 017-03353
UD: 9110
AN: 1703353
DC: ODC836

710 of 788
TI: Two new American wood pests in Europe.
OT: Dva nova americka drvna stetnika u Evropi.
AU: Kovacevic,-Z
SO: 1955, Drvna Ind. 1955 6 (4/5), 1955 (12-4). 6 refs.
PY: 1955
LA: Serbo-Croatian
AB: Describes Lyclus planicollis and Xylosandrus germanus, their biology, damage, prevention andcontrol.
DE: Borers-of-trees-of-timber; Furniture-beetles
CAB: OF Forestry-Abstracts 1956 017-03393
UD: 9110
AN: 1703393
DC: ODC1457; ODC8452

711 of 788
TI: The effect of wood moisture content on the emergence of Southern Lyctus beetle.
AU: Smith,-RH
SO: 1955, J. econ. Ent. 1955 48 (6), 1955 (770-1).
PY: 1955
LA: English
AB: Seventeen half-round billets of Oaks and Hickory, infested, 6 months before the test, withLyctus planicollis, were cut in halves and held at 12% and 8% m.c. for comparison. From each ofthe former about 34% more beetles emerged than from the latter. In a

greenhouse where m.c. washeld at 15-18% the emergence was doubled. Emergence from the moister wood was no earlier.
DE: Borers-of-trees-of-timber; Borers-effect-of-wood-m.c.-on-emergence; Carya-spp.-woodborers; Furniture-beetles; Quercus-spp.-wood-borers
CAB: OF Forestry-Abstracts 1956 017-03394
UD: 9110
AN: 1703394
DC: ODC8452

712 of 788
TI: A short system for pro-rating direct labor cost in furniture plant rough mills
AU: Creighton,-JW
SO: 1956, For. Prod. J. 1956 6 (3),(108-10).
PY: 1956
LA: English
AB: Presents tables and describes how cost ratios between different lumber grades and cuttinglengths may be used for this. [Cf. For. Abstr. 17 (No. 3352). From author's summary.
DE: Cost-accounting; Furniture-manufacture-costs; Timber-trade
CAB: OF Forestry-Abstracts 1956 017-04366
UD: 9110
AN: 1704366
DC: ODC79; ODC836

713 of 788
TI: Abstracts of [26] papers, FPRS tenth national meeting
SO: 1956, For. Prod. J. 1956 6 (3),(25A-28A.).
PY: 1956
LA: English
AB: Subjects comprise: sampling for quality control (4 papers), preservation of wood and boardproducts in buildings (6), gluing (4), chemicals from wood and bark (3), logging and milling(5), finishing and packaging of furniture (4).
DE: Furniture-manufacture-finishing-and-packing; Research-organization-and-programmes-forestproducts
CAB: OF Forestry-Abstracts 1956 017-04371
UD: 9110
AN: 1704371
DC: ODC31; ODC8; ODC8248; ODC8321; ODC836; ODC841; ODC85; ODC86

714 of 788
TI: Abstracts of [26] papers, FPRS tenth national meeting.
SO: 1956, For. Prod. J. 1956 6 (4; 5),(33A-35A; 37A).
PY: 1956
LA: English
AB: Subjects comprise: Preservation of wood (1 paper), marketing (1), gluing (2), drying (3),chemicals from wood and bark (3), machining (4), logging and milling (1), composition boards(3), plywood (4), and furniture, finishing and packaging (4).

DE: Furniture-manufacture-finishing-and-packing; Research-organization-and-programmes-forestproducts
CAB: OF Forestry-Abstracts 1956 017-04372
UD: 9110
AN: 1704372
DC: ODC31; ODC71; ODC8; ODC8248; ODC8321; ODC8322; ODC836; ODC841; ODC847

715 of 788
TI: Fair number 1956. Wood industry and technology.
OT: Messeheft 1956, Technic und holzwirtschaft.
SO: 1956, Holz-Zbl. 1956 82 (50) pp. 160.
PY: 1956
LA: German
AB: A special number describing and discussing the section for woodworking machinery (includingalso installations such as drying kilns, steaming pits, and dust removers) shown at the GermanIndustries Fair, Hanover, 1956. Numerous special articles include: New developments inchipboard manufacture (F. Kollmann); Modern planing machines (H. Wacker); Wood bending in thefurniture industry (F. Fessel).
DE: Bending,-wood-equipment-and-methods; Chipboard-; Furniture-manufacture-bending; Planingequipment-; Seasoning-kilns; Steaming-of-wood; Woodworking-plants-machinery-and-tools
CAB: OF Forestry-Abstracts 1956 017-04426
UD: 9110
AN: 1704426
DC: ODC82; ODC823; ODC827; ODC8321; ODC836; ODC846; ODC847; ODC862

716 of 788
TI: Powder- post and other wood borer beetles which are pests of timber in Rhodesia.
AU: Rose,-DJW
SO: 1956, Rhod. agric. J. 1956 53 (2), (218-34). 7 refs.
PY: 1956
LA: English
AB: Notes on some lyctid, bostrychid, cerambycid and anobiid beetles, and on pinhole borers, withrecommendations for control and protection.
DE: Borers-of-trees-of-timber; Furniture-beetles; Southern-Rhodesia-insect-pests-of-timber
GE: Southern-Rhodesia
CAB: OF Forestry-Abstracts 1956 017-04518
UD: 9110
AN: 1704518
DC: ODC8452

717 of 788
TI: The rearing of Lyctus planicollis and the preparation of wood for control tests.
AU: Smith,-RH

SO: 1956, J. econ. Ent. 1956 49 (1), (127-9). [Southeastern Forest Experiment Station.].
PY: 1956
LA: English
AB: Winter-cut pieces of Oak or Hickory 1-3 in. in diam., are cut into 10- to 12-in. lengths, splitlengthwise to 0.75 in. thick and dried to < 18% m.c. On each piece are put 6 male and6 female (parasite-free) adults, and the pieces stacked in a breeding container. With plentifulstarch, ca. 30% emergence occurs in 4 months, the rest in 9-12 months. Freshly seasoned piecesof wood placed on the stack will attract emerging adults, which can then be easily collected.
DE: Borers-of-trees-of-timber; Borers-laboratory-rearing; Furniture-beetles
CAB: OF Forestry-Abstracts 1956 017-04519
UD: 9110
AN: 1704519
DC: ODC8452

718 of 788
TI: Spray treatment for prevention of lyctus attack in sawn logs.
SO: 1956, Leafl. For. Prod. Res., Lond. 1956 No. 43 (rev.) pp. 3.
PY: 1956
LA: English
DE: Borers-of-trees-of-timber; Furniture-beetles
CAB: OF Forestry-Abstracts 1956 017-04520
UD: 9110
AN: 1704520
DC: ODC8452

719 of 788
TI: The fumigation of a house with methylbromide.
AU: Edwards,-DW; Hadlington,-P; McGregor,-GM
SO: 1956, Tech. Notes For. Comm. (Div. Wood Technol.) N. S. W. 1956 (1/4), (6-9). 4 refs.
PY: 1956
LA: English
AB: A large house, mainly of Baltic Pine, badly infested with Anobium and termites, was coveredwith plastic sheets and subjected to 1-2 lb. MeBr/1000 cu. ft. for 9 hours. Insect-infestedsamples of Eucalyptus and 6 cultures of fungi were exposed at the same time. All Lyctus andAnobium in timber (up to 2 in. thick) were killed. Of the fungi only Merulius lacrymans waskilled and that probably by heat.
DE: Borers-of-trees-of-timber; Furniture-beetles-fumigation-of-infested-houses; Pinus-sylvestriswood-borers; Termites-control
CAB: OF Forestry-Abstracts 1956 017-04521
UD: 9110
AN: 1704521
DC: ODC8452; ODC8453

720 of 788
TI: Chipboard and its use in furniture.
AU: Akers,-LE
SO: 1956, Aust. Timb. J. 1956 22 (1), (60....82). [Furniture Development Council, London.].
PY: 1956
LA: English
AB: A comprehensive account of development, types, methods of manufacture, and physical, strengthand working properties.
DE: Chipboard-; Chipboard-use-in-furniture; Furniture-manufacture-use-of-chipboard
CAB: OF Forestry-Abstracts 1956 017-04571
UD: 9110
AN: 1704571
DC: ODC836; ODC862

721 of 788
TI: Furniture marts in Rangoon.
AU: San-Maung.
SO: 1953, Burmese For. 1953 3 (2), (67-78). 4 refs.
PY: 1953
LA: English
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1955 016-01043
UD: 9110
AN: 1601043
DC: ODC79; ODC836

722 of 788
TI: Afforestation of the upper catchment of the Kahawa.
SO: 1954, Rapp. Inst. nat. Etude agron. Congo belge 1953 1954 (431).
PY: 1954
LA: French
AB: The experimental reforestation of the Lipper catchment of the Kabawa has been undertaken usingAnderson's spaced-group planting method [cf. For. Abstr. 13 (No. 2091)] with six species ofEucalypt, and other exotic and indigenous species. The method is also one of the treatments ina replicated trial in raising Podocarpus usambarensis in three ecologically designated siteswith three spacing treatments.
DE: Afforestation-; Eucalyptus-spp.-afforestation-catchment-areas; Eucalyptus-spp.-spaced-groupplanting; Furniture-beetles; Group-regeneration; Planting-spaced-groups; Podocarpususambarensis-; Spacing-; Belgian-Congo-afforestation
GE: Belgian-Congo
CAB: OF Forestry-Abstracts 1955 016-01711
UD: 9110
AN: 1601711
DC: ODC23211; ODC23243; ODC233

723 of 788
TI: Curved plywood, its production and application in the furniture industry.
AU: Miller,-DG
SO: 1953, J. For. Prod. Res. Soc. 1953 3 (2), (22-6).
PY: 1953
LA: English
AB: Discusses different methods of bending, and describes with illustrations a machine developed atthe Forest Products Laboratory, Ottawa, in which glued veneers are placed on a pressure band,bent on a curved form and bonded by dielectric heating.
DE: Bending-plywood; Furniture-manufacture; Plywood-bending
CAB: OF Forestry-Abstracts 1954 015-00738
UD: 9110
AN: 1500738
DC: ODC827; ODC8322

724 of 788
TI: Furniture timbers in relation to contemporary design. 1. What is contemporary furniture? 2. Theevolution of contemporary design. 3. Some well-known woods. 4. Less usual timbers. 5. Someexotic timbers. 6. Away from severity. 7. Mixing woods. 8. Hand craftmanship.
AU: Joel,-D
SO: 1952, Wood 1952, 1953 17,18 (7-12), (274-6; 313-5; 351-3; 440-1; 482-3); (1; 2), (24-5; 68-9).
PY: 1952
LA: English
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1954 015-00789
UD: 9110
AN: 1500789
DC: ODC836

725 of 788
TI: Correlation of Walnut furniture cutting requirements with grade yield.
AU: Creighton,-J-W; Stump,-WG; Hutchins,-WF
SO: 1952, Quart. Bull. Mich. agric. Exp. Sta. 1952 35 (2), (230-47).
PY: 1952
LA: English
DE: Furniture-manufacture; Juglans-spp.-wood-for-furniture
CAB: OF Forestry-Abstracts 1954 015-00790
UD: 9110
AN: 1500790
DC: ODC836; ODC854

726 of 788
TI: Domestic furniture constructed mainly of wood. Part 1.

Dinning-type chairs.
SO: 1953, Brit. Stand. 1953. No. 1960, Part 1, pp. 31. Price 5s.
PY: 1953
LA: English
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1954 015-00791
UD: 9110
AN: 1500791
DC: ODC836; ODC854

727 of 788
TI: Domestic furniture constructed mainly of wood. Part 2. Cabinet goods for storage purposes.
SO: 1953, Brit. Stand. 1953. No. 1960, pp. 38 Price 5s.
PY: 1953
LA: English
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1954 015-00792
UD: 9110
AN: 1500792
DC: ODC836; ODC854

728 of 788
TI: Domestic furniture constructed mainly of wood. Part 3. Tables.
SO: 1953, Brit. Stand. 1953 No. 1960, Part 3, pp. 26. Price 5s.
PY: 1953
LA: English
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1954 015-00793
UD: 9110
AN: 1500793
DC: ODC836; ODC854

729 of 788
TI: A summary of some recent work on the factors affecting egg-laying and hatching in Anobiumpunctatum De. G. (Coleoptera Anabiidae).
AU: Bletchly,-JD
SO: 1951, Trans. 9th int. Congr. Ent., Amsterdam. 1951 1 1, (728-34). 6 refs.
PY: 1951
LA: English
AB: [Cf. For. Abstr. 13 (No. 4343).] Research at Princes Risborough has given the followingresults: (1) The % of eggs laid on equal surfaces of blocks glued with blood, hide andurea-formaldehyde glues was 41.9, 36.9 and 21.2% respectively on Scots Pine and 42.5, 37.4 and20.1% on Beech. (2) At 20 ° C., relative humidities of about 56% are critical forviability and incubation period of eggs. Above that figure conditions are suitable for hatchingand higher humidities have little effect in shortening incubation period, and below it theincubation period becomes rather longer and viability

decreases. Temperature appears to havemore effect on length of incubation, higher average temperatures shortening it. The limits ofvariation in the length of the period are considerable, whether in the incubator, in thelaboratory, or out of doors. (3) At 22 ° C. and 76% r.h. only about half the larvae thathatched established themselves in sound wood but where slight decay was present a higherproportion was successful. This was more noticeable on Beech than on Turkey Oak and Scots Pine.The data obtained from Beech suggests that more extensive decay may not have any increasedeffect on larval establishment.
DE: Borers-; Decayed-wood-susceptibility-to-beetle-attack; Fagus-sylvatica-wood-insectattack; Furniture-beetles; Pinus-sylvestris-wood-insect-attack; Quercus-cerris-wood-insect-attack
CAB: OF Forestry-Abstracts 1954 015-00853
UD: 9110
AN: 1500853
DC: ODC8442; ODC8452

730 of 788
TI: The influnce of decay in timber on susceptibility to attack by the common furniture beetle,Anobium punctatum de G.
AU: Bletchily,-JD
SO: 1953, Ann. appl. Biol. 1953 40 (1), (218-21).
PY: 1953
LA: English
AB: Preliminary results of research in progress at Princes Risborough. The development of A.punctatum in decayed as compared with sound sapwood was studied in freshly converted wooddecayed and stored for 7 years, wood decayed after being in store from 14 to 20 years, and wooddecayed immediately after winter felling. The decayed wood proved more suitable for egg-layingand initial larval penetration, and in woods attacked by white rot the larvae grow morequickly, though fewer may survive. There is, however, no indication that the life cycle isshortened as with the death-watch beetle [cf. For. Abstr. 3 (223)]. Survival of larvae in wooddecayed by brown rot seems to be even lower than in wood decayed by white rot.
DE: Borers-; Decayed-wood-susceptibility-to-beetle-attack; Furniture-beetles
CAB: OF Forestry-Abstracts 1954 015-00854
UD: 9110
AN: 1500854
DC: ODC8442; ODC8452

731 of 788
TI: Some notes on the incidence and control of wood-boring insects in New Zealand.
AU: Mason,-CGW
SO: 1952, New Zealand Science Review, Wellington 1952 10 (7), (103-6). 6 refs.
PY: 1952

LA: English
AB: Notes are given on the more important species (Anobium punctatum Ambeodontus tristis Lyctusspp., Calotermes brouni and Prionoplus reticularis) and their control. The increasing use ofPinus radiata in buildings makes its susceptibility to borer attack a matter of importance.Trees grown in shelterbelts, which reach maturity before being converted, usually developconsiderable heart timber and this is relatively immune to attack. Plantation-grown Pine,however, has a large proportion of sapwood, and egg-deposition preference tests showed that itranks with sapwood of Rimu in attractiveness to Anobium. A further finding is that sapstain onP. radiata encourages egg deposition by Anobium; in tests on blocks of P. radiata with abouthalf the surface stained with characteristic streaks of sapstain, 90% of the eggs depositedwere on the sapstained portions. Another test was designed to show the difference inattractiveness of various colours to Anobium beetles. Preliminary results indicate that beetleswere found on different colours in the following proportions : red 41%, pink 23, yellow 12,green 9, blue 6, lavender 5, orange 4. Further tests are to be made under more strictlycontrolled conditions, and the possibility of preventing egg deposition by painting wood theappropriate colour is envisaged. The partiality to sap-stained timber, mentioned above, may beconnected with this colour preference.
DE: Borers-; Furniture-beetles; Pinus-radiata-borer-attack; Powder-post-beetle
CAB: OF Forestry-Abstracts 1954 015-00855
UD: 9110
AN: 1500855
DC: ODC8452

732 of 788
TI: Timber in all ages: forests, trees and the use of wood in the past.
OT: Hout in alle tijden: bossen, bomen en toegepast hout in het verleden.
AU: Beekman,-WB; et-al.
SO: 1949, N. V. Uitgevers-Maatschappij AE. E. Kluwer, Deventer. 1949. Vols. 1 and 2, pp. [10] + 715; pp.[4] + 776. Many refs. Price £ 5. 10s. 0d. each volume.
PY: 1949
LA: Dutch
AB: Contains a number of contributions by different authors on forests, tree species and the usesof wood Vol. 1 covering the period from prehistoric times to the ancient Persians and Vol. 2from the ancient Greeks to the Byzantine age with various uses of wood up to the end of thenineteenth century, including special articles on boats and ships, musical instruments, inlaywork, furniture and interior woodwork, and carving.
DE: Boats-and-ships; Furniture-manufacture; Wood-utilization-history-of;Woodworking-plants-machineryand-tools
CAB: OF Forestry-Abstracts 1954 015-01854
UD: 9110

AN: 1501854
DC: 0DC1821; 0DC83; 0DC835; 0DC836; 0DC838; 0DC902

733 of 788
TI: The timber industries in the U.S.A. I. Timber and the furniture industry.
SO: 1953, Organization for European Economic Co-operation, Paris. 1953. pp. 129 + 1 dgm. Price [8s.].
PY: 1953
LA: English
AB: Reports on a tour by Technical Assistance Mission No. 59A of the furniture industry in theEastern and Central U.S.A. under the sections: the American approach; general; wood used infurniture making; the American furniture plant; methods of manufacture, labour; marketing;research and testing; trade associations; and training of higher staff, and makes somecomparisons with conditions in Europe.
DE: Furniture-manufacture; Woodworking-plants-machinery-and-tools
CAB: OF Forestry-Abstracts 1954 015-01904
UD: 9110
AN: 1501904
DC: 0DC79; 0DC836

734 of 788
TI: The effect of hydrogen cyanide on the eggs of the common furniture beetle, Anobium punctatum(Deg.)
AU: Bletchly,-JD
SO: 1953, Bull. ent. Res. 1953 44 (3), (415-8). 4 refs.
PY: 1953
LA: English
AB: Complete mortality was obtained by fumigating eggs of A. punctatum with HCN at a concentrationof 4.25 mg./litre and 4 concentration/time exposures, varying from 4.3 to 42.5 mg./hr. perlitre. The eggs are less resistant than the larvae, so that commercial treatments used forinfested wood will also kill the eggs. From author's summary.
DE: Borers-; Furniture-beetles
CAB: OF Forestry-Abstracts 1954 015-01982
UD: 9110
AN: 1501982
DC: 0DC8452

735 of 788
TI: Quality control in furniture manufacturing.
AU: Calahan,-RC
SO: 1953, J. For. Prod. Res. Soc. 1953 3 (5), (19-24, 209-10). 6 refs.
PY: 1953
LA: English
AB: Outlines a plan for establishing quality control in a furniture plant and give some examples ofthe use of control charts in

studying accuracy of dimensions, quality of incoming timber, andefficiency of loading. [Cf. For. Abstr. 15 (Nos. 2926, 3016, 3064).]
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1954 015-02938
UD: 9110
AN: 1502938
DC: ODC836

736 of 788
TI: Furniture timbers of N.S.W.
AU: Byrnes,-NB
SO: 1953, Tech. Notes For. Comm. (Div. Wood Technol.) N.S.W. 1953 7 (2), (12-6).
PY: 1953
LA: English
AB: Includes a list of some 50 woods, grouped by their colour, with information on workingproperties, susceptibility to insect attack, weight and natural distribution, and a furtherlist of 17 woods suitable for turnery work.|838.\See No. 4188. |839.8.\See also Nos. 4172,4330, 4353, 4363.
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1954 015-04211
UD: 9110
AN: 1504211
DC: ODC836

737 of 788
TI: Quality standards for furniture.
SO: 1952, Wood 1952 17 (7), (284-5).
PY: 1952
LA: English
AB: A brief illustrated account of the research programme of the Furniture Development Council'sResearch Department at Redhill, Surrey.
DE: Furniture-manufacture-standards
CAB: OF Forestry-Abstracts 1953 014-00735
UD: 9110
AN: 1400735
DC: ODC836; ODC9454

738 of 788
TI: The effect of the height of stretcher rails on the diagonal strength of frames.
AU: Merrick,-MJ
SO: 1952, Research Department Report, Furniture Development Council, London [1952?]. No. 1 pp. 35.
PY: 1952
LA: English
AB: Tests are described in which the effect is studied of the position of the stretcher rail on thedistribution of load between

the two main rail joints in a rectangular frame. The tests werecarried out on sets of these frames, the stretcher rail being at a different height in eachset. The dimensions of each frame approximated to those of the lower side frame of a typicaldining chair. A simple comparison of failing loads was not attempted, but use has been made ofthe deflections of the main rail joints, observed when frames are loaded diagonally, inassessing the effectiveness of the stretcher rail. The results show that the position of thestretcher rail has little effect on the distribution of loads between the two main rail joints,providing the rail is placed more than ca. 3/16 of the way down the leg of the frame, distancesbeing measured from the centre lines of the main rail and stretcher rail. A theoreticalanalysis was made and agreed reasonably well with the experimental results. From author'ssummary.
DE: Furniture-manufacture-tests; Wages-piecework
CAB: OF Forestry-Abstracts 1953 014-01603
UD: 9110
AN: 1401603
DC: ODC8127; ODC836

739 of 788
TI: The development of modern furniture design in Britain.
AU: Heal,-JC
SO: 1952, In Timber Progress and Desk Book for 1953, Cleaver-Hume Press, London. 1952. pp. 109-18.
PY: 1952
LA: English
AB: IP5,0»
DE: Furniture-manufacture-design
CAB: OF Forestry-Abstracts 1953 014-02749
UD: 9110
AN: 1402749
DC: ODC836

740 of 788
TI: Diagram illustrating the use of Malayan timbers for building construction.
SO: 1952, Trade Leafl. Malay. For. Serv. 1952. No. 14 Price 20 cents or 6d.
PY: 1952
LA: English
AB: The diagram shows the details of building construction and lists timbers recommended for each(giving trade and vernacular names only) and for furniture.
DE: Buildings-and-their-construction; Buildings-and-their-construction-use-of-tropicalhardwoods; Furniture-manufacture-standards; Tropical-hardwoods-structural-timbers
CAB: OF Forestry-Abstracts 1953 014-03817
UD: 9110
AN: 1403817

DC: ODC8331

741 of 788
TI: Cost savings in furniture manufacture by accurate dimensional control.
AU: Pittman,-HB, Jr.; Johnson,-ES
SO: 1952, Bulletin, Department of Engineering Research, North Carolina State College, Raleigh, N.C. 1952.No. 53 pp. i + 53 + 28 tbls. 9 refs.
PY: 1952
LA: English
AB: Shows that it is desirable to establish dimensional tolerances in furniture manufacture andmaintain them by using gauges. This method of dimensional control should be followed by othersystems of scientific management, operating in conjunction with the gauges. Presents twomethods of gauging: (1) individual gauges for length and width of each part of each piece, and(2) adjustable or universal gauges with dial indicators. By using gauges, a saving of ca. 8 %may be effected in direct cabinet-room labour. For the average furniture plant, a system ofindividual gauges would cost ca. $4600 per year; for adjustable gauges, the annual cost on a5-year basis would not exceed $300.
DE: Furniture-manufacture-standards
CAB: OF Forestry-Abstracts 1953 014-03832
UD: 9110
AN: 1403832
DC: ODC79; ODC835

742 of 788
TI: Technical Bulletin, Furniture Development Council.
SO: The Furniture Development Council, 11 Adelphi Terrace, Robert Street, London, W.C.2. 2-monthly.Price to contributing bodies 15s. p.a. to others 30s. p.a.
LA: English
AB: Vol. 1, No. 1, for Jan./Feb., 1951, contains some 20 pages. The Council's aim is to collect andcirculate to the furniture industry all current technical and scientific information affectingfurniture manufacture. The bulletins will contain 4 regular features: selected items ofinterest to one section of the industry; technical notes; summaries of published articles andbooks; and questions and answers. Abbreviation in For. Abstr.: Tech. Bull. Furniture Developm.Coun.
DE: Furniture-manufacture; Plastics-
CAB: OF Forestry-Abstracts 1951-52 013-00713
UD: 9110
AN: 1300713
DC: ODC0052/054; ODC836; ODC9451

743 of 788
TI: School furniture.
SO: 1950, Brit. Stand. 1950. No. BS/MOE 11-22 pp. 114. Price 17s.

6d.
PY: 1950
LA: English
DE: Furniture-manufacture; Plastics-
CAB: OF Forestry-Abstracts 1951-52 013-00714
UD: 9110
AN: 1300714
DC: ODC836

744 of 788
TI: Excess moisture in wood.
SO: 1951, Wood Prod. 1951 56 (6), (17-9).
PY: 1951
LA: English
AB: The Laucks Sentry, manufactured by the Technical instruments Division, Laucks LaboratoriesInc., Seattle, Washington, is an electronic device which automatically rejects or marks stockat or above any given moisture content. It is designed for use by furniture and veneermanufacturers, but can be adapted for other processes. The electronic brain of the device ishoused in a 19 1/2 X 29 1/2 X 17 1/2-in. metal case. A set of electric probesis permanently installed at some place where there is a regular flow of material. This controlunit, which has a sensitivity of 0.1%, can be set at any moisture content, and will detect awet spot in any part of the stock. It works equally well on any species and on stock of anynormal thickness. It has been successfully used by a firm of furniture manufacturers for ayear.
DE: Furniture-manufacture-moisture-control; Moisture,-wood-meters; Wood,-properties-of
CAB: OF Forestry-Abstracts 1951-52 013-01502
UD: 9110
AN: 1301502
DC: ODC8122; ODC8322; ODC836

745 of 788
TI: Comparisons of Redwood and flat-grained Yellow Poplar for cores in furniture panels.
AU: Peck,-EC; Selbo,-ML
SO: 1950, Rep. U.S. For. Prod. Lab., Madison 1950. No. 1785, pp. 10 + 13 photos, 1 dgm., 11tbls.
PY: 1950
LA: English
AB: Vertical-grained Redwood compares favourably with flat-grained Yellow Poplar as core materialfor high-quality furniture panels. Under the conditions tested, panels with vertical-grainedRedwood cores remained flatter and developed fewer and smaller face ridges and grooves withchanges in moisture content, than panels with flat-grained Redwood or Yellow-Poplar cores.Although panels with flatgrained Yellow-Poplar cores generally cupped more than panels withflat-grained Redwood cores, the development of ridges and grooves was less for theYellow-Poplar cores. Core strips as wide as 10 in., and including bands of sapwood, had nodetrimental effects

where vertical-grained Redwood was used. Flat-grained Redwood core stripscontaining sapwood developed more and larger face grooves and ridges than panels with any ofthe other types of core. Authors' summary.
DE: Furniture-manufacture-plywood; Liriodendron-tulipifera-wood-plywood-cores; Plywood-; Sequoiasempervirens-wood-plywood-cores; Veneer-woods-for
CAB: OF Forestry-Abstracts 1951-52 013-01585
UD: 9110
AN: 1301585
DC: ODC8322; ODC836

746 of 788
TI: Furniture beetles.
SO: 1951, Econ. Ser. Brit. Mus. 1951. No. 11, [revised (5th?) ed.], pp. 34.
PY: 1951
LA: English
AB: Contains an illustrated description and life history of both important and minor species; alsomethods of prevention and control.

DE: Borers-; Furniture-beetles; Insect-pests-of-wood
CAB: OF Forestry-Abstracts 1951-52 013-01654
UD: 9110
AN: 1301654
DC: ODC8452

747 of 788
TI: Note on susceptibility of Pinus radiata D.Don timber to attack by the common house borerAnobium punctatum de Geer.
AU: Spiller,-D
SO: 1951, N.Z. J. Sci. Technol. 1951 32B (5), (38-9).
PY: 1951
LA: English
DE: Borers-; Furniture-beetles; Insect-pests-of-wood; Pinus-radiata-insects
CAB: OF Forestry-Abstracts 1951-52 013-01655
UD: 9110
AN: 1301655
DC: ODC8452

748 of 788
TI: Digestion of alpha-cellulose by larvae of Anobium punctatum De Geer.
AU: Spiller,-D
SO: 1951, Nature, Lond. 1951 168 (4266), (209-10).
PY: 1951
LA: English
DE: Borers-; Borers-digestion-of-a-cellulose-by-larvae; Furniture-beetles; Insect-pests-of-wood
CAB: OF Forestry-Abstracts 1951-52 013-01656

UD: 9110
AN: 1301656
DC: ODC8452

749 of 788
TI: Controlling moisture content in cabinet production.
AU: Mottet,-AL; Ring,-WC
SO: 1951, Wood, Chicago 1951 6 (6), (18-9, 33-6).
PY: 1951
LA: English
AB: Investigations conducted in the research laboratory of the Long-Bell Lumber Co. proved thatmost of the difficulties now experienced with dimension control can be eliminated by ensuringthat the wood is initially dried to, and subsequently delivered to the customer at, the propermoisture content. The aim of the investigation was to develop a method of obtaining precisecontrol of moisture content (m.c.) in factory products, mainly in edge-glued kitchen-cabinetdoors and cabinet verticals made of 4/4 X 6VG and 4/4 12 FG Fir and Hemlock.Acceptable m.c. was set at 6-9 %, with 8 % as optimum the maximum tolerance of individualpieces with m.c. exceeding 10% was to be 3% of the total number of pieces. It was found thatboth insufficient control of m.c. at the kilns and moisture absorption during storage andmanufacturing, were responsible in about equal degree for the excessive m.c. in products. M.c.determinations were effected with moisture meters, which were found to give results as accurateas oven tests. Tests on kiln performance led to some improvements in stacking and modificationin kiln schedules. Tests on the rate of moisture absorption in cooling sheds point to thenecessity of giving shop lumber priority over other items in order of removal from the sheds,and controlling its passage through the kilns so as to minimize accumulation of stocks.Considerable improvement of products was obtained by providing enclosed heated storage adjacentto the machining site, a heated area for the packaging (and bundling) line, and a heatedwarehouse. Two control points were provided: (1) at the unstackers, from which samples ofrecently dried kiln charges were taken for tests (degraded lumber being sent back forredrying); (2) at the factory cutting line where 'wet' stock is rejected.
DE: Furniture-manufacture-moisture-control; Seasoning-; Seasoning-control
CAB: OF Forestry-Abstracts 1951-52 013-01671
UD: 9110
AN: 1301671
DC: ODC8122; ODC836; ODC847

750 of 788
TI: Woodworkers' Tool Works designs pyramid joint.
SO: 1951, Wood-worker, Indianap. 1951 70 (7), (70).
PY: 1951
LA: English
AB: An illustrated description of a new joint developed by the

Woodworkers' Tool Works, Chicago.This (Knourek system) joint makes it possible to build up short pieces into strong, durableboards which can be used in furniture. The sectional view of the joint is that of a slopingcrenellated wall. A machine for cutting pyramid joints is being designed.
DE: Furniture-manufacture; Joints-pyramid
CAB: OF Forestry-Abstracts 1951-52 013-02471
UD: 9110
AN: 1302471
DC: ODC824; ODC8248; ODC836

751 of 788
TI: Gluing of furniture parts by means of high frequency currents.
SO: Technical Division Reports, Office of Technical Services, United States Department of Commerce,Washington, D.C. [n.d.] No. IR 5884 pp. 3.
LA: English
AB: Gives distance of electrodes from the joints;. setting time, and effect of humidity of the woodon setting time.
DE: Furniture-manufacture-gluing; Glue-joints-failures; Glues-and-gluing; Gluing-dielectric-heating
CAB: OF Forestry-Abstracts 1951-52 013-02476
UD: 9110
AN: 1302476
DC: ODC8248; ODC836

752 of 788
TI: How to utilize veneer waste.
SO: 1951, Wood, Chicago. 1951 56 (12), (27).
PY: 1951
LA: English
AB: Swain Industries, Inc., Seymour, Indiana, use daily 5-10 tons of dry veneer and panel trimmingsfor the manufacture of chair backs and seats. The waste is comminuted, mixed with resin, andpressed. Carbide-tipped knives and saws are desirable in the mass production of the back andseat panels.
DE: Fibreboard-; Fibreboard-from-veneer-waste; Furniture-manufacture-use-of-veneer-waste; Pulp-andpaper
CAB: OF Forestry-Abstracts 1951-52 013-02611
UD: 9110
AN: 1302611
DC: ODC8322; ODC836; ODC8398; ODC861

753 of 788
TI: The increase in infestations of the furniture beetle.
AU: Sisley.C
SO: 1951, Timber News 1951 59 (2148), (428-9). (Monthly Bulletin of the British Wood PreservingAssociation, October 1951.).
PY: 1951
LA: English
AB: A theory is advanced to explain the increase in the population

of the furniture beetle [cf.For. Abstr. 12 (No. 401)). Before 1914, Anobium punctatum was found mostly in furniture made ofwell seasoned, and often polished and cleaned hardwood, and the life cycle of the larvae wasnot less than 3-4 years. After 1914-18, softwood timber used for house building contained avery much higher % of sapwood than before, and this sapwood is increasingly chosen by thebeetle for oviposition. Slightly damp softwood is thus a new habitat for the beetles, and itssugar and starch content has brought about a shorter life cycle (ca. 2 years). Another factoris the increasing use of plywood, in which the life cycle is often only a year.
DE: Borers-; Furniture-beetles; Insect-pests-of-wood; Great-Britain-borers
GE: Great-Britain
CAB: OF Forestry-Abstracts 1951-52 013-03432
UD: 9110
AN: 1303432
DC: ODC1457; ODC8452

754 of 788
TI: The status of the common furniture beetle in Britain.
AU: Hicklin,-NE
SO: 1951, Rec. 1st Conv. Brit. Wood Pres. Ass. 1951 (169-74).
PY: 1951
LA: English
AB: Discusses the relative importance of various species of wood-boring beetles, a theory toaccount for the increase of infestations by Anobium punctatum, and parasites and predators.
DE: Borers-; Furniture-beetles; Insect-pests-of-wood; Great-Britain-borers
GE: Great-Britain
CAB: OF Forestry-Abstracts 1951-52 013-03433
UD: 9110
AN: 1303433
DC: ODC1457; ODC8452

755 of 788
TI: Survey of the occurrence and amount of damage caused by insects and fungi destructive to timberin dwelling houses in southern Sweden.
OT: Erhebungen uber das Vorkommen und den Schaden der Holzschadlinge in Wohnhausern in Sudschweden.
AU: Butovitsch,-V
SO: 1951, Z. angew. Ent. 1951 33 (1/2), (172-86). 7 refs.
PY: 1951
LA: German
LS: German
AB: [Cf. For. Abstr. 13 (No. 1657).] Presents data on the extent of attack, type and age ofbuilding, part of the building attacked and costs of control and repairs. The following insectsand fungi are dealt with: Hylotrupes bajulus, Anobium punctatum, A. pertinax, Callidiumviolaceum, Ernobius mollis, Sirex sp., Merulius lacrymans

and Coniophora cerebella.
DE: Borers-; Decay-In-wood-in-buildings; Furniture-beetles; Insect-pests-of-wood; Sweden-insect-pests
GE: Sweden-
CAB: OF Forestry-Abstracts 1951-52 013-03434
UD: 9110
AN: 1303434
DC: ODC1457; ODC8442; ODC8452

756 of 788
TI: Manufacture and evolution of furniture in Brazil.
OT: Fabricacao e evolucao do mobiliario no Brasil.
AU: Nunes,-G-Marques.
SO: 1950, An. bras. Econ. flor., Inst. nac. Pinho 1950 3 (3), (194-201).
PY: 1950
LA: Portuguese
LS: English
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1951-52 013-04305
UD: 9110
AN: 1304305
DC: ODC836

757 of 788
TI: The common furnituire beetle (Anobium punctatum): laboratory investigations.
SO: 1951, Rep. For. Prod. Res. Bd., London, 1950 1951 (52-3).
PY: 1951
LA: English
AB: A satisfactory egg-laying surface has now been evolved using muslin attached mechanically tosamples to be infested. Artificial blocks prepared from Oak sapwood flour with blood, bone,casein or hide glues, and exposed in 1947 to A. punctatum, gave emergence during 1950 fromblocks containing the first two but not the last two adhesives. It has been confirmed that theweight and rate of development of larvae boring in decayed wood are markedly greater than insound controls. A study of the N content of pupae has been started and it is intended to extendthis to include the analysis of beetles and larvae to obtain information on the N requirementin different stages of development.
DE: Borers-; Borers-laboratory-culture; Furniture-beetles; Insect-pests-of-wood; Stain-protectionagainst
CAB: OF Forestry-Abstracts 1951-52 013-04343
UD: 9110
AN: 1304343
DC: ODC1457; ODC841; ODC8452

758 of 788
TI: Ultrasonics and the sterilization of insect-infested wood.
SO: 1951, Rep. For. Prod. Res. Bd., Lond. 1950 1951 (54-5).

PY: 1951
LA: English
AB: A 15 kilocycles/sec. generator feeding a laminated nickel transducer of surface area6 X 2 in. with ca. 350 watts of ultrasonic power was used. Squares, 2 X 2 in., of3/16-in. Birch plywood infested by Anobium punctatum were exposed for 2-4 min. with dryinterface or water film at interface between sample and transducer. Some of the treated sampleswere cut up for detailed examination and others were retained for observing insect emergence.No immediate effect on the insects was apparent and it is doubtful whether the results justifyfurther trials.
DE: Borers-; Furniture-beetles; Insect-pests-of-wood; Preservation,-wood-ultrasonic; Stain-protectionagainst; Ultrasonic-treatment-of-wood
CAB: OF Forestry-Abstracts 1951-52 013-04344
UD: 9110
AN: 1304344
DC: ODC841; ODC8452

759 of 788
TI: Investigations on Lyctus powder post beetles.
SO: 1951, Rep. For. Prod. Res. Bd., Lond. 1950 1951 (48-9).
PY: 1951
LA: English
AB: Examination of sawn Oak logs sprayed with DDT in 1948 showed that spraying all sapwood in earlyspring with a 2% DDT preparation gave protection for at least the rest of the year, a 1 %concentration gave good results but not complete protection, while at an 0.5% concentration,infestation occurred but was less than that in untreated controls. Results of treating 11/2-in. Oak boards with 5 % DDT or 1 % gamma BHC preparations showed that neither applied as afog was as effective as a spray of the same insecticide at a lower concentration.
DE: Borers-; Furniture-beetles; Insect-pests-of-wood; Preservation-of-logs; Preservation,-woodagainst-borers; Preservation,-wood-against-powderpost-beetles; Preservatives,-wood'DDT'; Stain-protection-against
CAB: OF Forestry-Abstracts 1951-52 013-04345
UD: 9110
AN: 1304345
DC: ODC34; ODC841; ODC8452

760 of 788
TI: Investigations with DDT smokes in buildings.
SO: 1951, Rep. For. Prod. Res. Bd., Lond. 1950 1951 (54).
PY: 1951
LA: English
AB: In an experiment at Princes Risborough a DDT smoke was liberated in a room of ca. 2,000 cu. ft.capacity containing samples of wood attacked by Lyctus or Anobium punctatum, distributed andarranged in several positions, to determine differences in the amount of deposit on the varioussurfaces. The deposit was estimated

to be of the order of 74 mg.sq.ft.; it did not prevent theemergence of either species from infected wood, nor did it affect length of life or egg-layingif the insects were removed immediately from contact with the treated surfaces. The length oflife of both species was considerably reduced, as compared with controls, by continuous contactwith treated surfaces, the effect being greatest on upper horizontal surfaces and lower onvertical and lower horizontal surfaces. Conclusions so far are that such a residual deposit ofDDT is insufficient to give protection against Lyctus or A. punctatum even within 2-7 days oftreatment, except perhaps on upper horizontal surfaces. The value of the smoke for killingbeetles emerging before or during treatment has not been determined but is likely to beconsiderable. [Cf. For. Abstr. 12 (No. 2386).]
DE: Borers-; Furniture-beetles; Insect-pests-of-wood; Preservation,-wood-against-borers; Preservation,wood-against-powderpost-beetles; Preservatives,-wood-'DDT'; Stain-protection-against
CAB: OF Forestry-Abstracts 1951-52 013-04346
UD: 9110
AN: 1304346
DC: ODC841; ODC8452

761 of 788
TI: Tropical wood research for the furniture industry.
AU: Wangaard,-FF
SO: 1949, Proc. U.S. For. Prod. Res. Soc. 1949 3 (72-84). [Yale University, New Haven, Connecticut.].
PY: 1949
LA: English
AB: Results of tests on the mechanical, physical, seasoning, machining and bending properties of 12tropical American woods (Astronium graveolens, Hymenaea courbaril, Bagassa guianensis,Terminalia amazonia, Dicorynia paraensis, Buchenavia capitata, Loxopterygium sagotii,Pseudosamanea guachapele, Tabebuia pentaphylla, Cordia alliodora, Cedrela tonduzii and Tabebuiadonnell-smithii) are tabulated and compared with those for some established furniture woods.(Cf. For. Abstr. 11 (No. 1074).]
DE: Astronium-graveolens; Bagassa-guianensis; Buchenavia-capitata; Cedrela-tonduzii; Cordiaalliodora-; Dicorynia-paraensis; Furniture-manufactures-suitable-timbers; Hymenaeacourbaril-; Loxopterygium-sagotii; Pseudosamanea-guachapele; Strength,-wood; Tabebuiadonnell-smithii; Tabebuia-pentaphylla; Terminalia-amazonia; Tropical-hardwoods-properties-anduses; Wood,-properties-of
CAB: OF Forestry-Abstracts 1950-51 012-00337
UD: 9110
AN: 1200337
DC: FL310

762 of 788
TI: Series II. No. 3. Attack on wood by Anobiidae.
OT: Series II. Aantasting No. 3. Aantasting van hout door

klopkevers (Anobiidae).
AU: Hof,-T
SO: 1949, Circ. centr. Inst. Mater. Onderzoek Afd. Hout 1949. No. 12 pp. 16. 64 refs.
PY: 1949
LA: Dutch
LS: English
AB: A review of literature.
DE: Furniture-beetles; Insect-pests-of-wood; Wood,-properties-of
CAB: OF Forestry-Abstracts 1950-51 012-00400
UD: 9110
AN: 1200400
DC: FL13; FL3143; FL33361

763 of 788
TI: The beetle population.
AU: Sisley,-C
SO: 1950, Timber News 1950 58 (2130) (143-4). (Monthly Bulletin of the British Wood PreservingAssociation, April, 1950.).
PY: 1950
LA: English
AB: A possible cause of the increase in the population of the death-watch beetle (Xestobiumrufovillosum) in churches during the last 50 years is the installation of heating, withconsequent condensation of moisture on the roof timbers. Part of the increase of the furniturebeetle (Anobium punctatum) can be attributed to the storing of a good deal of furniture duringthe war; but this does not account for the infestation of large numbers of small suburbanhouses which were tenanted throughout the war.
DE: Death-watch-beetle; Furniture-beetles; Insect-pests-of-wood; Wood,-properties-of
CAB: OF Forestry-Abstracts 1950-51 012-00401
UD: 9110
AN: 1200401
DC: FL13; FL3143

764 of 788
TI: Furniture manufacture.
OT: La fabrication du meuble.
AU: Salomon,-R
SO: 1950, Rev. Bois appl. 1950 5 (4) (18-21).
PY: 1950
LA: French
AB: Discusses briefly the processes and equipment used in air and kiln seasoning, manufacture andassembly of solid and laminated wooden furniture.
DE: Furniture-manufactures; Seasoning-; Seasoning-kilns; Woodworking-machinery
CAB: OF Forestry-Abstracts 1950-51 012-00459
UD: 9110
AN: 1200459
DC: FL3312; FL33152; FL33363

765 of 788
TI: Solid wood chair seat production methods.
AU: Graham,-PH
SO: 1950, Wood-Worker, Indianap. 1950 69 (1) (36, 38).
PY: 1950
LA: English
DE: Furniture-manufactures; Woodworking-machinery
CAB: OF Forestry-Abstracts 1950-51 012-00460
UD: 9110
AN: 1200460
DC: FL3312

766 of 788
TI: Radio-frequency tooling in America (in the manufacture of bent-plywood furniture and in edgebanding).
AU: Cunningham,-JB
SO: 1950, Timber News 1950 58 (2131) (212-9). Repr. from Furniture Manufacturer, New York.
PY: 1950
LA: English
DE: Furniture-manufactures-plywood; Glues-and-gluing; Gluing-dielectric-heating; Plywood-; Plywoodfurniture-
CAB: OF Forestry-Abstracts 1950-51 012-00475
UD: 9110
AN: 1200475
DC: FL33155

767 of 788
TI: Quality control and seasoning.
AU: Rietz,-RC
SO: 1949, Prepr. U.S. For. Prod. Res. Soc. 1949. 48 pp. 11. [Forest Products Laboratory, Madison.].
PY: 1949
LA: Ukrainian, Serbo-Croatian
AB: Sampling by oven drying and by moisture meters was used in 2 furniture plants to establish andmaintain a desired average moisture content and an acceptable standard of deviation. Standardsof uniformly low moisture content were attained and kept.
DE: Furniture-manufactures-seasoning; Seasoning-; Seasoning-furniture; Seasoning-moisture-determination
CAB: OF Forestry-Abstracts 1950-51 012-00592
UD: 9110
AN: 1200592
DC: FL33363

768 of 788
TI: A note on the life-cycle of Anobium punctatum de Geer.
AU: Kelsey,-JM
SO: 1949, N.Z. J. Sci. Technol. 1949 30 (4), (211-4). 2 refs.
PY: 1949

LA: English
AB: The life cycle is not less than 3 years in air-dried sapwood of Podocarpus dacrydioides or 4years in air-Med sapwood of Pinus radiata when recently milled. In both timbers the life cyclefor some individuals exceeded the above figures by at least one year. Kiln drying of timberprolongs the life cycle but does not prevent infestation. From author's summary.
DE: Furniture-beetles; Insect-pests-of-wood; Wood,-properties-of
CAB: OF Forestry-Abstracts 1950-51 012-01204
UD: 9110
AN: 1201204
DC: FL13; FL3143

769 of 788
TI: Handling of assembly materials in furniture manufacture.
AU: Wilkins,-WB
SO: 1949, Proc. U.S. For. Prof. Res. Soc. 1949 3 (110-4).
PY: 1949
LA: English
AB: Methods of speeding up and reducing the costs of assembly operations are described.
DE: Furniture-manufactures; Woodworking-handbooks
CAB: OF Forestry-Abstracts 1950-51 012-01258
UD: 9110
AN: 1201258
DC: FL3312

770 of 788
TI: Supplementing wood with metal in furniture manufacturing.
AU: Gividen,-JH
SO: 1949, Proc. U.S. For. Prod. Res. Soc. 1949 3 (115-20).
PY: 1949
LA: English
DE: Furniture-manufactures; Woodworking-handbooks
CAB: OF Forestry-Abstracts 1950-51 012-01259
UD: 9110
AN: 1201259
DC: FL3312

771 of 788
TI: Radio frequency application problems of furniture manufacturers.
AU: Cunningham,-JB
SO: 1949, Proc. U.S. For. Prod. Res. Soc. 1949 3 (381-9).
PY: 1949
LA: English
AB: Describes and illustrates the application of various R.F. gluing techniques used by differentfurniture manufacturers.
DE: Furniture-manufactures-plywood; Glues-and-gluing; Gluing-; Gluing-dielectric-heating; Laminated-wooduses; Plywood-; Plywood-furniture

CAB: OF Forestry-Abstracts 1950-51 012-01295
UD: 9110
AN: 1201295
DC: FL3312; FL33155

772 of 788
TI: Manufacturing laminated office furniture.
AU: Booth,-FL
SO: 1950, Veneers & Plyw. 1950 44 (5), (20, 22).
PY: 1950
LA: English
DE: Furniture-manufactures-plywood; Glues-and-gluing; Gluing-; Plywood-
CAB: OF Forestry-Abstracts 1950-51 012-01296
UD: 9110
AN: 1201296
DC: FL3312; FL33155

773 of 788
TI: Timber preservation: entomological investigations.
SO: 1950, Rep. Dep. sci. industr. Res. N.Z. 1950 (68).
PY: 1950
LA: English
AB: There is a wide variation, from two to several hundred, in the number of eggs laid by Anobiumpunctatum on different wood blocks in identical conditions. Variation occurs with all timberspecies, is not due to presence or absence of egg-laying sites, and is not influenced by theremoval of ether or water extractives Anobium larvae have been shown to digest 20-25% of thewood eaten; little or no pentose fraction is digested. Marked differences in larval growth rateof Ambeodontus tristis were found to occur in different wood species, and some evidence wasobtained that the rate of growth was related to N content of the wood.
DE: Furniture-beetles; Insect-pests-of-wood; Wood,-properties-of
CAB: OF Forestry-Abstracts 1950-51 012-02059
UD: 9110
AN: 1202059
DC: FL13; FL3143

774 of 788
TI: Laboratory tests of insecticides and preservatives.
SO: 1950, Rep. For. Prod. Res. Bd., Lond. 1939-47 1950 (29-30, 80-1).
PY: 1950
LA: English
AB: Experiments have shown that vacuum impregnation of sapwood of English Oak with a 3% kerosenesolution of pentachlorophenol did not prevent egg-laying or hatching, but that larvae died soonafter hatching; failure of short (1-3 minutes) dipping treatments was probably due toinsufficient penetration. Contact with surfaces treated with Gammexane appeared to have a morerapid but less

permanent effect on beetles than with those treated with DDT. Samples of decayedOak sapwood were treated and exposed to infestation by Xestobium rufovillosum. Beetles incontact with material treated with DDT lived longer than those exposed to Gammexane. No eggswere laid on treated samples, but egg-laying took place normally on controls. Lyctus, furniturebeetles and death-watch beetles allowed to walk on surfaces treated with 5% DDT dust soonbecame coated on ventral and dorsal surfaces, but when transferred to untreated surfaces theywere able to get rid of the dust and lived almost as long as controls. When surfaces infestedwith Lyctus or furniture beetles are treated with polish containing Gammexane or DDT, emergenceof insects is affected but not entirely prevented; a high % are killed before the emergencehole has been completed.
DE: Furniture-beetles; Gammexane-; Powder-post-beetle; Preservation,-wood;Preservation,-woodagainst-powder-post-beetles; Preservatives,-wood-DDT; Preservatives,-wood-benzenehexachlorocyclohexane-BHC; Preservatives,-wood-pentachlorophenates; Quercus-robur-s.l.-woodpreservative-treatment
CAB: OF Forestry-Abstracts 1950-51 012-02188
UD: 9110
AN: 1202188
DC: FL13; FL3143; FL33361

775 of 788
TI: Moisture tolerances.
SO: 1950, Rep. For. Prod. Res. Bd., Lond. 1939-47 1950 (31-2).
PY: 1950
LA: English
AB: Furniture made from Oak kiln-dried to moisture contents averaging 20% and 16%, was kept inconditions calculated to bring the final moisture content to ca. 12%. The furniture was thaninspected and graded according to visible defects, outward appearance, fit of drawers andquality generally. It was found that wood at a moisture content of more than 12-14% was liableto give trouble during actual manufacture and assembly, but that troubles later, thoughsometimes appreciable, did not necessarily make the final product unserviceable. A highermoisture content could safely be allowed for table-leg squares and no doubt forstraight-grained wood shrinking less than Oak.
DE: Furniture-manufactures-seasoning; Quercus-robur-s.l.-wood-seasoning; Seasoning-; Seasoningfurniture-
CAB: OF Forestry-Abstracts 1950-51 012-02206
UD: 9110
AN: 1202206
DC: FL33363

776 of 788
TI: Damage by beetles in buildings. Part 2.
OT: Kaferfrass im Bau (Teil 2).
SO: 1950, Holz-Helfer, Suppl. to Holz 1950. 4 (11), pp. 2.

PY: 1950
LA: German
AB: Description of Anobium punctatum, A. pertinax, Xestobium rufovillosum, Ptilinus pectinicornis,Ernobius mollis, Lyctus linearis, L. brunneus, and Bostrychus capucinus, and their control.

DE: Death-watch-beetle; Furniture-beetles; Powder-post-beetle; Wood,-properties-of
CAB: OF Forestry-Abstracts 1950-51 012-03056
UD: 9110
AN: 1203056
DC: FL13; FL3143; FL33361

777 of 788
TI: Tropic furniture of rattan [: manufacturing details].
AU: Towers,-WK
SO: 1949, Wood-Worker, Indianap. 1949 58 (2), (28, 30-1).
PY: 1949
LA: English
DE: Canes-; Furniture-manufacture-cane; Minor-forest-products
CAB: OF Forestry-Abstracts 1949-50 011-00600
UD: 9110
AN: 1100600
DC: FL3312; FL3428

778 of 788
TI: Fire protection: eliminating dangerous risks in furniture factories.
AU: Tuckey,-WH
SO: 1949, Cabinet Mkr. 1949 No. 2594, (127-8).
PY: 1949
LA: English
DE: Fire-control-costs,-in-furniture-factories; Furniture-manufacture-fire-prevention
CAB: OF Forestry-Abstracts 1949-50 011-01199
UD: 9110
AN: 1101199
DC: FL3312

779 of 788
TI: Woodworm [Anobium punctatum]: repair of infested furniture.
AU: Hicken,-NE
SO: 1949, Cabinet Mkr. 1949 No. 2595. (207).
PY: 1949
LA: English
DE: Furniture-manufacture-repairs; Preservation,-wood
CAB: OF Forestry-Abstracts 1949-50 011-01323
UD: 9110
AN: 1101323
DC: FL3143; FL33361

780 of 788
TI: Moisture content of wood as related to finishing furniture.
AU: Browne,-FL
SO: 1947, Rep. U.S. For. Prod. Lab., madison 1947. No. D1722, pp. 7 + 2 gphs.
PY: 1947
LA: English
AB: Moisture content of the wood within the limits permitted in furniture manufacture has littlesignificant effect on the finishing. Most finishes have a protective effect by slowing down thepassage of moisture in or out of wood. Results of service tests on the moisture content ofwoods with different finishes in different conditions of air humidity are shown.in graphs andtables.
DE: Finishes,-wood; Furniture-manufacture-finishes; Furniture-manufacture-seasoning; Preservation,wood-
CAB: OF Forestry-Abstracts 1949-50 011-02076
UD: 9110
AN: 1102076
DC: FL3122; FL3312; FL3336

781 of 788
TI: Wood seasoning in furniture manufacture.
OT: Het drogen van hout in de meubelindustrie.
AU: Boer,-LJJ
SO: 1947, Eletrotechniek 1947 25 (22), (334-8).
PY: 1947
LA: Dutch
AB: Describes, with diagrams and photographs, an electrically heated seasoning kiln, in commercialuse, with a timber capacity of 12 cu.m. and automatic control of temperature and moisturesupply.
DE: Furniture-manufacture-seasoning; Seasoning-; Seasoning-furniture
CAB: OF Forestry-Abstracts 1948-49 010-01290
UD: 9110
AN: 1001290
DC: FL33363; FL077; FL3312

782 of 788
TI: A log loader operated by motor trucks.
OT: Brevnogruzhatel's privodom ot avtomashiny.
AU: Kheyfets,-IS; Karavaev,-VI
SO: 1948, Lesnaya Prom. 1948 (7), (15-6).
PY: 1948
LA: Russian
AB: Describes, with photographs and a diagram, the constructional features and operation of anall-metal log hoist for loading trucks, having 2 girder ramps carrying endless chains withhooks, and special arrangements to enable the drive to be taken from the truck that is beingloaded. The trucks are fitted with an extra universally jointed drive-shaft between the gearbox and a coupling box (incorporating a reducing gear) mounted on the side of the

chassis. Thehoist has a universally jointed driveshaft which fits at one end into the coupling box on thetruck, and transfers the drive to a 'floating' gear-box (down-gear) mounted on a shaft whenceit is taken by sprocket and chain to the driving sprocket of the ramps. This shaft bearing thegearbox and sprocket is mounted in a special 'pendulum' A-frame which gives sufficient play toobviate the manoeuvring of a truck into an exact position before coupling is possible and whichcan be mounted at will on either side of the ramps according to convenience. The machine willload a truck (8 cu.m.) in from 7-8 min. for large timber (24-30 cm. diam.) to 10-12 min. forpitprops, etc., and is worked by a gang of 3-4 men.
DE: Loading-machinery; Logging-; Transport,-logs-and-timber; Great-Britain-furniture-manufacture
GE: Great-Britain
CAB: OF Forestry-Abstracts 1948-49 010-02681
UD: 9110
AN: 1002681
DC: FL3296; FL077

783 of 788
TI: English furniture, traditional and modern.
AU: Symonds,-RW
SO: 1948, J. R. Soc. Arts 1948 96 (4773), (520-33).
PY: 1948
LA: English
DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1948-49 010-02691
UD: 9110
AN: 1002691
DC: FL3312410

784 of 788
TI: A study of the Belgian furniture industry.
OT: Une etude sur l'industrie de l'ameublement en Belgique.
AU: Torck,-MV]
SO: 1949, Rev. Bois Appl. 1949 4 (2), (35-7).
PY: 1949
LA: French
DE: Furniture-manufacture; Belgium-furniture-industry
GE: Belgium-
CAB: OF Forestry-Abstracts 1948-49 010-02692
UD: 9110
AN: 1002692
DC: FL3312493[

785 of 788
TI: Modern woodwork and furniture making.
AU: Barker,-GH
SO: 1948, The Technical Press Ltd., Kingston Hill, Surrey. 1948. pp. 146.
PY: 1948

LA: English
AB: A brief survey of modern developments and instructions for the manufacture of box, stool,frame, table, and cupboard constructions.

DE: Furniture-manufacture
CAB: OF Forestry-Abstracts 1948-49 010-02693
UD: 9110
AN: 1002693
DC: FL3312; FL021

786 of 788
TI: All veneer furniture-a new construction method.
AU: Patronsky,-LA
SO: 1946, Veneers & Plyw. 1946 40 (9) (12, 14).
PY: 1946
LA: English
AB: Research at the Wood Technology Laboratory of Michigan University is exploring the bestcommercial methods of making moulded plywood furniture. A V-slotting method of bending plywoodwas found to be an improvement on the traditional saw-kerfing method, which leaves awedge-shaped opening through which moisture may enter.
DE: Furniture-manufacture; Plywood-
CAB: OF Forestry-Abstracts 1947-48 009-00993
UD: 9110
AN: 0900993
DC: FL3312; FL33152

787 of 788
TI: Board of trade working party reports. Furniture.
SO: 1946, H.M. Stationery Office London. 1946. pp. 209.
PY: 1946
LA: English
AB: Report of the Working Party set up in 1945 to study methods of improving the British furnitureindustry. A general survey of the industry is followed by detailed studies of problemsconnected with raw materials, the structure and growth of the industry, technical developmentsand research, labour questions, standards, design, education, utility furniture, retail,distribution and export. Recommendations are made under each head. They include theestablishment of a committee to investigate timber, plywood and veneer supplies and the settingup of a National Furniture Council to ensure that the recommendations of the report are carriedout, to act in an advisory capacity to the industry and to initiate the establishment of aNational Furniture College, a Technical Research Association, a Design Centre and an EconomicIntelligence Service. Appendixes include a report on the American furniture industry, notes onwood-destroying beetles and the kiln-drying of timber, recommendations on design submitted bythe Council of Industrial Design and a summary of developments in the inter-war years in theprincipal foreign markets for furniture.
DE: Furniture-manufacture

CAB: OF Forestry-Abstracts 1947-48 009-02338
UD: 9110
AN: 0902338
DC: FL3312410; FL071; FL072; FL35; FL82; FL98; FL33361; FL33363

788 of 788
TI: Method for controlling the moisture content of wood going into furniture production.
SO: 1947, Rep. U.S. For. Prod. Lab., Madison 1947. No. R1685 pp. 10 + 3 tbls. + 3 gphs.
PY: 1947
LA: English
AB: Describes the control-chart method of checking moisture content of wood, after drying andbefore assembly. Gives specimen charts, and formulae for obtaining the central lines andcontrol limits for average moisture content and standard deviation, using inspection datagathered over a period of time. Experiments at a co-operating furniture plant indicate that themethod is practical and that a small number of samples per day checked for moisture contentwill provide sufficient information for control purposes. [Cf. For. Abstr. 9 No. 2378).]
DE: Furniture-manufacture; Moisture,-wood-control
CAB: OF Forestry-Abstracts 1947-48 009-02339
UD: 9110
AN: 0902339
DC: FL3312; FL31221

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