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<input checked="" type="checkbox"/>	2	Binding oil to wood, to form oil treated prods. used for outdoor furniture and boat boards. [€ 15.22]

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TI Binding oil to wood, to form oil treated prods. used for c
and boat boards - comprises heat treatment with comspn. cc
anhydride, vegetable oil and alcohol. DPCI-tietokanta

DC D23 E13 F09 G04 P63

IN EK, P; JAMSA, S; PAAJANEN, L; PIIPPONEN, J; VIITANIEMI, P; JAEMSAE, S

PA (VALW) VALTION TEKNILLINEN TUTKIMUSKESKUS

PI WO 9638275 A1 19961205 (199703)* EN 16p B27K003-50 <--

RW: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD
SE SZ UG

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JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT
RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN

FI 9502654 A 19961201 (199711) B27K003-15
AU 9658237 A 19961218 (199714) B27K003-50
SE 9704395 A 19980123 (199815) B27K003-50
SE 509980 C2 19990329 (199919) B27K003-15
FI 104706 B1 20000331 (200022) B27K003-15

PRAI FI 1995-2654 19950531 B27K003-15

IC ICM B27K003-15; B27K003-50

IC ICS B27K003-15

CDP CITED PATENTS UPD: 20000614

Cited by Examiner

CITING PATENT	CAT	CITED PATENT	ACCNO
WO 9638275	A A	EP 77497	A 1983-42010K/18
		PA: (WOLM) WOLMAN GMBH	
		IN: MARX, H N	
		X EP 254130	A 1988-022806/04
		PA: (VIAN) VIANOVA KUNSTHARZ AG	
		IN: DWORAK, G	
		UPG: 20010612	


CGP CITING PATENTS

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CITED PATENT	CAT	CITING PATENT	ACCNO
WO 9638275	A1	DE 19847964	A1 2000-330103/22
		PA: (FACH-N) FACHHOCHSCHULE ERFURT; (KNOE-N) KNOELL-INST	
		NATURSTOFF-FORSCH EV HANS; (MAIE-I) MAIER S; (TEXC-N)	
		TEX-COLOR FARBEN-PUTZE-LACKE GMBH & CO; (TEXC-N)	
		TEX-COLOR FARBEN-PUTZE-LACKE GMBH & CO R	
		IN: BEIL, D; FINK, H; HERTEL, W; MAIER, S; MUELLER, P	
		DE 19852827	A1 2000-366984/32
		PA: (MENZ-I) MENZ M	
		IN: RAPP, A O; SAILER, M	
		US 6217939	B1 2000-366984/32
		PA: (MENZ-I) MENZ M	

Viitattu patenttikirjallisuus (vanhempia)


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Title
Method for binding vegetable oil to wood in preparation of waterproof products suitable for outdoor exposure

Inventor Name
Viitaniemi, Pertti; Jaemsae, Salla; Paajanen, Leena; Ek, Pentti; Piipponen, Juhani

Patent Assignee
Valtion Teknillinen Tutkimuskeskus, Finland; Viitaniemi, Pertti; Jaemsae, Salla; Paajanen, Leena; Ek, Pentti; Piipponen, Juhani


Publication Source
PCT Int. Appl., 16 pp.

Identifier.CODEN
PIXXD2

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9638275	A1	19961205	WO 1996-FI329	19960531 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, Mw, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
FI 9502654	A	19961201	FI 1995-2654	19950531
AU 9658237	A1	19961218	AU 1996-58237	19960531
SE 9704395	A	19980123	SE 1997-4395	19971128
SE 509980	C2	19990329		


Priority Application Information



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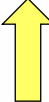
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<input checked="" type="checkbox"/>	1 Prevention of reswelling of compressed wooden blanks by impregnating the blanks with compositions containing a hydrophobic component and a hydrophilic group-containing component compatible with the hydrophobic component in vacuo [€ 3.79]
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CAS indexed 8 chemical substances from this document. [€ 2.00]

Title
Prevention of reswelling of compressed wooden blanks by impregnating the blanks with compositions containing a hydrophobic component and a hydrophilic group-containing component compatible with the hydrophobic component in vacuo

Inventor Name
Johansson, Ingvar

Patent Assignee
Lindhe, Curt, Swed.; Castwall, Lennart

Publication Source
PCT Int. Appl., 19 pp.

Identifier-CODEN
PIXXD2

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001068331	AL	20010920	WO 2001-5549	20010316
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, B3, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG SE 200000870 A 20010917 SE 2000-870 20000316				

Priority Application Information
SE 2000-870 A 20000316

Abstract
The method of preventing reswelling of a compressed wood comprises the steps of (a) providing a blank consisting of compressed wood, (b) exposing the blank to a reduced pressure at .ltoreq.0.2 atm, (c) submerging the blank in a vol.-stabilizing compn. contg. a hydrophobic base component and an additive compatible with the base component and contg. .gtoreq.1 hydrophilic group from carboxyl groups, hydroxy groups, and amino groups, (d) exposing the blank to a pressure than the pressure in step b over a predetd.

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wood, (b) exposing the blank to a reduced pressure at .ltoreq.0.2 atm, (c) submerging the blank in a vol.-stabilizing compn. contg. a hydrophobic base component and an additive compatible with the base component and contg. .gtoreq.1 hydrophilic group from carboxyl groups, hydroxy groups, and amino groups, (d) exposing the blank to a pressure than the pressure in step b over a predetd. period while keeping the blank submerged in the vol.-stabilizing compn., and (e) removing the blank from the compn. to cause the compn. located on the surface of the blank being sucked into the blank and cause the surface of the blank to become dry, and causing step b and step c to be carried out at one and the same time during one part or whole part of the process. Compressed pine planks were simultaneously submerged in a mixt. contg. linseed oil (Purolin) 80, Sylfat 2S (free fatty acids from tall oil) 19, and Sudan Green 985 (colorant) 1% ans exposed to vacuo at 0.05 atm for 4 h, kept in the mixt. for 24 h at atm. pressure, and dried 30 min to give colored blanks showing oil takeup amt. 20% and exhibiting reswelling amt. 2% (on swelling amt. of corresponding untreated compressed planks) on immersing the planks in H2O for 2 h.


International Patent Classification
International Patent Classification, Main
B27K005-06
International Patent Classification, Secondary
B27K003-15; B27K003-50

Document Type
Patent

Language
English

Accession Number
2001:693188 CAPLUS

Document Number
135:258746

Cited Reference or Reference  **Viitattu kirjallisuus (vanhempia) Etsitty julkaisu on mukana.**

[Show Partial References](#)

(1) Daiken Kogyo Kk; Modification of wood materials; JP 58032807 1983 CAPLUS [€ 3.79]
(2) Kiyo Sangyo Yg; Sealing compositions for porous substrates; JP 60120780 1985 CAPLUS [€ 3.79]
(3) Lindhe, A through-colored wooden element and manufacturing method; WO 9954103 A1 1999 CAPLUS [€ 3.79]
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(7) Valtion Teknillinen Tutkimuskeskus; Method for binding vegetable oil to wood in preparation of waterproof products suitable for outdoor exposure; WO 9638275 A1 1996 CAPLUS [€ 3.79]