



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 903 207 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
13.10.2004 Bulletin 2004/42

(51) Int Cl.7: **B27M 3/18**, B27M 3/00,
A47B 96/20, E04C 2/14

(43) Date of publication A2:
24.03.1999 Bulletin 1999/12

(21) Application number: **98203109.8**

(22) Date of filing: **17.09.1998**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Ruhberg, Mikko**
15460 Mäkelä (FI)

(74) Representative:
Järveläinen, Pertti Tauno Juhani et al
Oy Heinänen Ab,
Annankatu 31-33 C
00100 Helsinki (FI)

(30) Priority: **22.09.1997 FI 973747**

(71) Applicant: **Puusepäntehti M. Ruhberg Oy**
15170 Lahti (FI)

(54) **Structure for preventing warping of solid-wood board**

(57) Structure (2) for preventing warping of solid-wood board (1,1'), said structure consisting of a slot array fitted in the board and a stiffening element array fitted therein. The slot array consists of two or more successive sub-slots (3,5,7) of a length substantially shorter than the length of the slot array as a whole, in which the stiffening elements (4,6,8) forming the stiffening ele-

ment array are fitted. Any two successive sub-slots are placed at a distance from each other with respect to their longitudinal centre axis. Moreover, any two successive sub-slots are disposed in an overlapping arrangement relative to each other so that a portion of one sub-slot lies longitudinally side by side with a portion of another sub-slot successive to it.

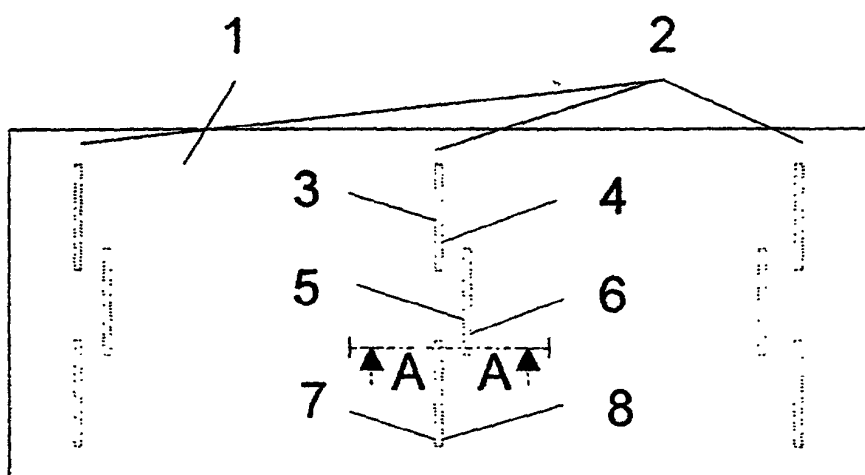


FIG. 1

EP 0 903 207 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 20 3109

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	GB 345 356 A (ISAAC FREEDLAND) 26 March 1931 (1931-03-26) * figures 8-11 *	1	B27M3/18 B27M3/00 A47B96/20 E04C2/14
A	AT 114 711 B (MAGRUTSCH ADALBERT) 25 October 1929 (1929-10-25) * figures *	1	
A	FR 2 337 018 A (OLIVIER HENRI) 29 July 1977 (1977-07-29) * figures *	1	
A	GB 421 645 A (JOHANNES BRYNJULVSEN EEN) 24 December 1934 (1934-12-24) * the whole document *	1	
A	US 2 401 281 A (WEBB OSCAR H) 28 May 1946 (1946-05-28) * page 1, left-hand column, line 44 - right-hand column, line 6 * * page 1, right-hand column, line 45 - page 2, left-hand column, line 5 * * page 2, left-hand column, line 18 - left-hand column, line 28; figures 1-3 *	1	
A	FR 636 290 A (WEBER) 5 April 1928 (1928-04-05) * figure 1 *	1	
A	FR 1 089 895 A (SATEG) 22 March 1955 (1955-03-22) * figure *	1	
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		20 August 2004	Huggins, J
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/82 (P/4C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 20 3109

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-08-2004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 345356	A	26-03-1931	NONE	
AT 114711	B	25-10-1929	CH 45034 A	01-11-1909
			DE 1628976 A1	25-02-1971
			GB 124592 A	02-04-1919
			US 1796185 A	10-03-1931
FR 2337018	A	29-07-1977	FR 2337018 A1	29-07-1977
GB 421645	A	24-12-1934	NONE	
US 2401281	A	28-05-1946	NONE	
FR 636290	A	05-04-1928	NONE	
FR 1089895	A	22-03-1955	NONE	