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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B44C5/04 D21H27/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 197 726 A (FORMICA INTERNATIONAL LMITED) 8 July 1970 (1970-07-08) page 3, left-hand column, line 1 - line 30	1-3,7, 9-12,14, 18,20-22
X A	EP 0 329 154 A (PERSTORP AB) 23 August 1989 (1989-08-23) page 3, column 3, line 5 - line 12; claims; example 18	1-4,7,9, 11 12-22
А	FR 2 139 990 A (MEAD CORP) 12 January 1973 (1973-01-12) page 5, line 5 - line 13 page 8, line 5 - line 11; claims	1-22

X Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.
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Date of the actual completion of the international search 21 March 2002	Date of mailing of the international search report $09/04/2002$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer Blas, V

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INTERNATIONAL SEARCH REPORT

Inter anal Application No
PCT/IB 01/01194

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication where appropriate, of the relevant passages		Relevant to claim No.
X	EP 0 732 449 A (GRAUDENZ & PARTNER CONSULTATIO) 18 September 1996 (1996-09-18) cited in the application the whole document		1-4,6,7, 9-11 12-22
ο, χ	WO 00 44576 A (KRONOSPAN TECH CO LTD;OTT ANTON (DE); DOEHRING DIETER (DE)) 3 August 2000 (2000-08-03) claims		1-3,7-11

INTERNATIONAL SEARCH REPORT

information on patent family members

Inter nai Application No
PCT/IB 01/01194

				1	, 01, 01134
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 1197726	Α	08-07-1970	NONE		
EP 0329154	A	23-08-1989	SE AT BR CA DE DE DE DK EP ES FI NO SE US	460274 B 97062 T 8900695 A 1317869 A1 68910548 D1 68910548 T2 73489 A 0329154 A1 2048218 T3 890746 A 890666 A ,B, 8800550 A	25-09-1989 15-11-1993 10-10-1989 18-05-1993 16-12-1993 28-04-1994 19-08-1989 23-08-1989 16-03-1994 19-08-1989 21-08-1989 19-08-1989 10-07-1990
FR 2139990	А	12-01-1973	CA DE FR GB IT US	987217 A1 2225301 A1 2139990 A1 1390447 A 958076 B RE30233 E 3798111 A	13-04-1976 14-12-1972 12-01-1973 09-04-1975 20-10-1973 18-03-1980 19-03-1974
EP 0732449	Α	18-09-1996	DE AT DE EP	19508797 C1 183789 T 59602839 D1 0732449 A1	29-08-1996 15-09-1999 30-09-1999 18-09-1996
WO 0044576	A	03-08-2000	WO AU EP PL SK	0044576 A1 2830799 A 1068083 A1 343240 A1 14012000 A3	03-08-2000 18-08-2000 17-01-2001 30-07-2001 11-06-2001