(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **21.01.2004 Bulletin 2004/04**

(51) Int CI.7: **B05D 1/28**, B05D 3/02

(43) Date of publication A2: **26.06.2002 Bulletin 2002/26**

(21) Application number: 01130594.3

(22) Date of filing: 21.12.2001

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE TR

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 22.12.2000 IT MI002813

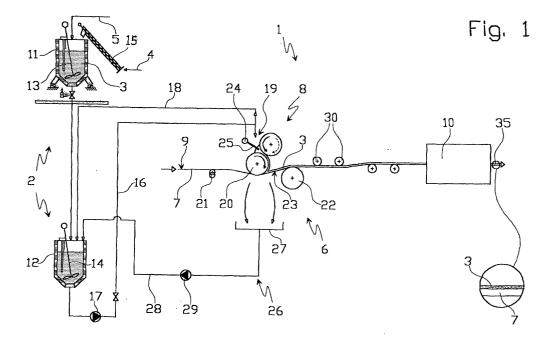
(71) Applicant: Tocchio S.r.I. 27029 Vigevano (IT)

- (72) Inventor: Tocchio, Umberto 27029 Vigevano (IT)
- (74) Representative: Cerbaro, Elena, Dr. et al STUDIO TORTA S.r.I., Via Viotti, 9 10121 Torino (IT)

(54) Method and unit for producing highly abrasion-resistant protective coverings, in particular for floor and work surfaces

(57) There are provided a method and unit (1) for producing highly abrasion-resistant protective coverings, in particular for floor and work surfaces. The method includes preparing a mixture (3) of a powdered abrasion-resistant substance (4) (e.g. corundum) evenly dispersed in a polymer resin (5) suitable for subsequent polymerization and/or cross-linking; applying the mixture (3) to a substantially dry sheet material (7) (in par-

ticular, nonimpregnated paper or a dried preimpregnated material with a low wet residue); and drying the sheet material (7) coated with the mixture (3). Tests have shown the covering so formed imparts to the surfaces on which it is applied an abrasion resistance superior to that obtainable using conventional methods (e.g. in which the abrasion-resistant powder is applied, pure or dispersed in a resin, to a wet preimpregnated material).





EUROPEAN SEARCH REPORT

Application Number EP 01 13 0594

Category	Citation of document with indi of relevant passage		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
D,X	DE 198 14 212 C (VITS 2 September 1999 (199 * column 1, line 53 - * column 2, line 2 -	S MASCHINENBAU GMBH) 99-09-02) - line 56 *	1,2,6-12	B05D1/28 B05D3/02
X	US 4 675 208 A (YOSH) 23 June 1987 (1987-06 * figure 2 *		14-20	
E	WO 02 43879 A (BHP ST;BUECHER UDO WOLFGANG JOHN) 6 June 2002 (20 * the whole document	G (AU); DAVIES MARK DO2-06-06)	1-15	
X	US RE30691 E (RONALD 28 July 1981 (1981-0 * column 5, line 56 * claims 1,2 *	7-28)	1	
X	US 4 968 538 A (FREE! 6 November 1990 (1990) * claim 1 *	0-11-06)	1	TECHNICAL FIELDS SEARCHED (Int.CI.7)
	Place of search	Date of completion of the search		Examiner
	THE HAGUE	27 November 20	03 S1e	mbrouck, I
X : par Y : par doc A : tecl	CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with anothe ument of the same category hnological backgroundwritten disclosure	E : earlier paten after the fillin r D : document cit L : document cit	ed in the application ed for other reasons	

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

EP 01 13 0594

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.

27-11-2003

cited in sea	ocument arch report	Publication date		Patent fami member(s)		Publication date
DE 198142	12 C	02-09-1999	DE AT CA DE DE WO EP US	19814212 242357 2326527 19825156 59905852 9950501 1084298 6432201	T A1 C1 D1 A1 A1	02-09-1999 15-06-2003 07-10-1999 07-10-1999 10-07-2003 07-10-1999 21-03-2001 13-08-2002
US 467520	8 A	23-06-1987	JP DE	60143866 3447510		30-07-1985 11-07-1985
WO 024387	9 A	06-06-2002	WO AU	0243879 1844701		06-06-2002 11-06-2002
US RE3069	1 E	28-07-1981	US US AU AU BE CA DE FR GB JP JP NL SE ZA	3876579 4018944 475569 5244073 797127 1010178 2311507 413001 2178644 1431676 879702 49008530 52007449 7304013 404018 7301080	A B2 A1 A1 A1 A5 A C A B B, B,	08-04-1975 19-04-1977 26-08-1976 22-08-1974 16-07-1973 10-05-1977 04-10-1973 16-05-1976 09-11-1973 14-04-1976 31-08-1977 25-01-1974 02-03-1977 01-10-1973 18-09-1978 24-12-1974
US 49 6853	8 A	06-11-1990	US AU BR CN DE DK DK FR GB JP NL NO	4789567 3138689 8905911 1043151 3914671 109395 575789 2639362 2225323 2144174 8901280 894648	A A A A A A A A A A	06-12-1988 31-05-1990 19-06-1990 20-06-1990 31-05-1990 29-09-1995 24-05-1990 30-05-1990 01-06-1990 18-06-1990 25-05-1990

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82