

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 November 2002 (14.11.2002)

PCT

(10) International Publication Number
WO 2002/090130 A3

(51) International Patent Classification⁷: **B44C 5/06**,
3/10, 1/26, 5/04, 5/00

(21) International Application Number:
PCT/IT2002/000276

(22) International Filing Date: 29 April 2002 (29.04.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MO01A000080 3 May 2001 (03.05.2001) IT

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

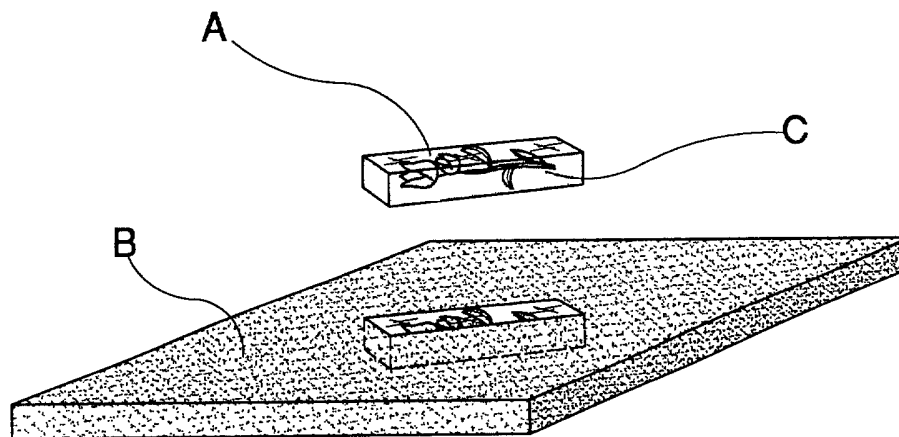
(88) Date of publication of the international search report:
25 March 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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(54) Title: TILES WITH CRYSTALLISED ORGANIC AND INORGANIC



(57) Abstract: The process comprises insertion of an element in tiles by cementing, the element being obtained by sinking organic or inorganic objects into a transparent matrix made using polyester trivalent, acrylic or epoxy resin, and a subsequent hermetic crystallisation of the organic or inorganic element in the transparent matrix. The system for fixing the element in the tile can be done using a paper lattice and glass fibre with silicone glue or hot-gluing done on the back of the tile, or by simple cementing between the lateral surface the transparent element and the lateral surface of the recess made in the tile. The fixture can comprise a further stage of decorative and fixture-coating on the visible side of the tile. The invention can be applied on coloured two-faced tiles so that the insert, thanks to the fact that it is transparent, can be visible on both sides. In the case of single-facing application in a traditional tile, the invention can be coloured on one side using any type of glaze, with the aim of achieving a colour combination with the surface of the support tile.

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INTERNATIONAL SEARCH REPORT

Internationa	Application No
PCT/IT 02/00276	

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B44C5/06 B44C3/10 B44C1/26 B44C5/04 B44C5/00

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

B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 B44C

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. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CH 608 432 A (PIRCHER BRUNO ;TSCHUMI HANS GEORG (CH)) 15 January 1979 (1979-01-15) column 1, line 52 - line 55	1,2
Y	column 2, line 45 - line 56 figures 1-5	3
X	US 4 263 734 A (BRADSHAW VINCENT L) 28 April 1981 (1981-04-28) column 1, line 60 - line 68 column 2, line 11 - line 12 column 2, line 63 - line 66 claim 3	1,2
Y	EP 0 154 222 A (STEULER INDUSTRIEWERKE GMBH) 11 September 1985 (1985-09-11) page 2, paragraph 4 figures 1,2	3
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Patent family members are listed in annex.

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Date of the actual completion of the international search 18 March 2003	Date of mailing of the international search report 03/04/2003
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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 Patosuo, S
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INTERNATIONAL SEARCH REPORT

Internationa	Application No
PCT/IT 02/00276	

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FR 2 519 679 A (NORD GAUDIER REMBAUX STE GRANI) 18 July 1983 (1983-07-18) figures 1-5 -----	3
A	FR 2 285 976 A (ERNST MARC) 23 April 1976 (1976-04-23) the whole document -----	1-3
A	FR 2 311 644 A (GUILLEMIN JEAN PIERRE) 17 December 1976 (1976-12-17) the whole document -----	1-3

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat	Application No
PCT/IT 02/00276	

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
CH 608432	A	15-01-1979	CH 608432 A5	15-01-1979
US 4263734	A	28-04-1981	NONE	
EP 0154222	A	11-09-1985	DE 8405695 U1	26-07-1984
			EP 0154222 A2	11-09-1985
			ES 284813 U	16-07-1985
			PT 80002 A , B	01-03-1985
FR 2519679	A	18-07-1983	FR 2519679 A1	18-07-1983
FR 2285976	A	23-04-1976	FR 2285976 A1	23-04-1976
FR 2311644	A	17-12-1976	FR 2311644 A1	17-12-1976