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(54) **Method for manufacturing tiles having the appearance of old rustic tiles of craftsman production**

(57) A method for manufacturing tiles having the appearance of old rustic tiles of craftsman production, comprising the following operations:

- in a usual mould, forming a crude tile from an atomized powder mix comprising inclusions of material

which volatilizes at a temperature less than or equal to 600°C,

- drying the thus formed tile in a continuous dryer using a usual drying cycle,
- kiln-firing the tile treated in this manner using a usual firing cycle.



FIG.1



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EUROPEAN SEARCH REPORT

Application Number
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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.7)
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12, 26 December 1996 (1996-12-26) & JP 08 217573 A (ZOU DESIGN ASSOC:KK), 27 August 1996 (1996-08-27) * abstract *	1-6, 16, 17	B28B11/24 B28B11/00 C04B38/06 C04B38/00
Y		18-20	
A		7-15	
X	GB 747 924 A (COUNCIL SCIENT IND RES) 18 April 1956 (1956-04-18) * page 1, line 53 - line 62 * * page 1, line 68 - line 75 * * page 2, line 66 - line 101 *	1, 3-6, 9	
A		2, 7, 8, 11-15	
X	DE 36 14 943 C (MALLOW, GÜNTHER) 30 April 1987 (1987-04-30) * column 1, line 8 - line 27 * * column 1, line 37 - line 39 *	1, 5, 6, 8	
A		2-4, 7, 9-15	
X	US 1 934 383 A (STAFFORD WILLIAM L) 7 November 1933 (1933-11-07) * page 1, line 1 - line 18 * * page 1, line 56 - line 59 * * page 2, line 15 - line 42 * * page 2 - line 75 *	1, 2, 5, 7	TECHNICAL FIELDS SEARCHED (Int.Cl.7) B28B C04B B44C
A		3, 4, 6, 8-15	
X	US 2 825 420 A (WILLIAM HEINE HENRY) 4 March 1958 (1958-03-04) * column 1, line 50 - column 2, line 67 *	1, 3-6, 8, 10, 16, 19 2, 7, 9, 11-15, 17, 18, 20	
A			
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30 October 2002	Examiner Real Cabrera, R
CATEGORY OF CITED DOCUMENTS 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		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	

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☒ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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EUROPEAN SEARCH REPORT

Application Number
EP 00 20 3851

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.C1.7)
X	US 4 619 860 A (BROWN DAVID S ET AL) 28 October 1986 (1986-10-28) * column 2, line 15 - line 28 * * column 2, line 32 - line 43 *	16,20	
A	* figures 1,2,5 * ---	1-15, 17-19	
Y	EP 0 066 311 A (SILINGARDI GIUSEPPE) 8 December 1982 (1982-12-08) * the whole document *	18-20	
A	US 5 190 708 A (PAOLO RANUZZI ET AL) 2 March 1993 (1993-03-02) * the whole document * -----	16-20	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.C1.7)
Place of search THE HAGUE		Date of completion of the search 30 October 2002	Examiner Real Cabrera, R
CATEGORY OF CITED DOCUMENTS 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 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			

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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-15

Method of producing porous tiles by volatilizing inclusions
of volatile material

2. Claims: 16-20

Ceramic tile having craters on its surface

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

EP 00 20 3851

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
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30-10-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 08217573	A	27-08-1996	NONE		
GB 747924	A	18-04-1956	NONE		
DE 3614943	C	30-04-1987	DE	3614943 C1	30-04-1987
US 1934383	A	07-11-1933	NONE		
US 2825420	A	04-03-1958	NONE		
US 4619860	A	28-10-1986	CA	1273781 A1	11-09-1990
			US	4676937 A	30-06-1987
EP 0066311	A	08-12-1982	IT	1150410 B	10-12-1986
			AU	8387682 A	25-11-1982
			EP	0066311 A1	08-12-1982
US 5190708	A	02-03-1993	IT	1216984 B	14-03-1990
			IT	1200209 B	05-01-1989
			DE	3728205 A1	31-03-1988
			ES	2006499 A6	01-05-1989
			FR	2604171 A1	25-03-1988
			GR	871300 A1	04-12-1987
			PT	85772 A ,B	14-10-1988