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(54) **A building block suitable for the construction of dry-stacking high performance masonry walls**

(57) A pre-cast modular block 1 for construction of walls by dry-stacking comprises two outer walls 2 and two inner walls 3. Each outer wall 2 is connected to its adjacent inner wall 3 by cross-walls 4 defining voids 5. The inner walls 3 are connected by cross-walls 6 which define a void 7 and open-ended formations 8. V-shaped grooves 10 and 11 are provided in the cross-walls 5 and 6 respectively. The upper surfaces 12 of the outer walls 2 are below the level of the upper surfaces 13 and are provided with bosses 14 which at their tops are level with surfaces 13.

Vertical rebates 17 are provided in the outer walls 2 at each side edge thereof.

The bosses 14 provide for stability during dry-stacking of the bosses and serve to define horizontal bed joints, vertical joints being defined by the rebate 17.

Horizontal and vertical bands of reinforced concrete may be provided in the wall for stability thereof.

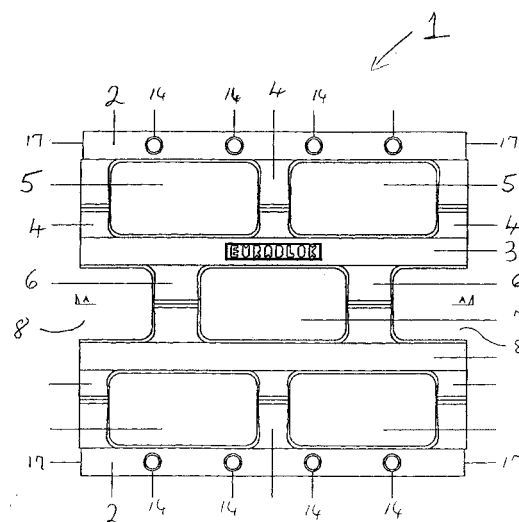


FIG. 1



European Patent
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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)
A	US 4 319 440 A (RASSIAS JOHN N ET AL) 16 March 1982 (1982-03-16) * claim 1; figures 1-3,8 *	1-5	E04B2/14 E04B2/42
A	US 2 106 177 A (HULTQUIST VICTOR J) 25 January 1938 (1938-01-25) * page 3, line 20 - page 3, line 28; figure 1 *	1-5	
A	WO 97 16610 A (PALAMARA GIOVANNI ;PALAMARA ROCCO (IT)) 9 May 1997 (1997-05-09) * figure 2 *	1-5	
A	DE 298 00 706 U (KS QUADRO VERWALTUNGSGESELLSCH) 11 February 1999 (1999-02-11) * claim 2; figures 1-3 *	1-5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E04B
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 21 August 2002	Examiner Rosborough, 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</p> <p>& : member of the same patent family, corresponding document</p>			

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

EP 01 30 0709

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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21-08-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4319440	A	16-03-1982	AU 536578 B2	10-05-1984
			AU 6315180 A	16-04-1981
			BR 8006565 A	14-04-1981
			CA 1124098 A1	25-05-1982
			DE 3038407 A1	07-05-1981
			FR 2467269 A1	17-04-1981
			GB 2062062 A ,B	20-05-1981
			GR 70376 A1	01-10-1982
			IL 61146 A	15-06-1983
			IT 1143040 B	22-10-1986
			JP 1494940 C	16-05-1989
			JP 56097044 A	05-08-1981
			JP 63046820 B	19-09-1988
US 2106177	A	25-01-1938	NONE	
WO 9716610	A	09-05-1997	IT 1276584 B1	03-11-1997
			AU 3993095 A	22-05-1997
			BR 9510660 A	26-01-1999
			CA 2236106 A1	09-05-1997
			EP 0858539 A1	19-08-1998
			WO 9716610 A1	09-05-1997
			PL 327509 A1	21-12-1998
DE 29800706	U	11-02-1999	DE 29800706 U1	11-02-1999