



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
13.05.2009 Bulletin 2009/20

(51) Int Cl.:
E02D 29/02 (2006.01) E04C 1/39 (2006.01)

(43) Date of publication A2:
30.11.2005 Bulletin 2005/48

(21) Application number: **05076174.1**

(22) Date of filing: **19.05.2005**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR LV MK YU

(72) Inventor: **Risi, Angelo**
Richmond Hill, Ontario, L4S 1K6 (CA)

(74) Representative: **Donné, Eddy**
Bureau M.F.J. Bockstael nv
Arenbergstraat 13
2000 Antwerpen (BE)

(30) Priority: **28.05.2004 CA 2469128**

(71) Applicant: **Jagna Ltd.**
Thornhill,
Ontario L3T 7P1 (CA)

(54) **Split key segmental retaining wall system**

(57) Disclosed is a segmental earth retaining wall block (1) having a front side (3), a top side (5) with a transversal tongue (7) of a given width projecting from it, the tongue (7) extending at a first distance (D1) from the front side (3), and a bottom side (9) with a transversal groove (11) made in it, the groove (11) being sized to receive the tongue (7) of another similar block (1) positioned below and thus to allow stacking of the blocks (1). The groove (11) extends at a second distance (D2) from the front side (3) that is smaller than the first distance (D1), and the first and second distances (D1,D2) are selected so that the tongue (7) and the groove (11) are offset with respect to each other over a distance that is smaller than the width of the tongue (7). Advantageously, the tongue (7) is provided with a splitting groove (13) sized and positioned to allow splitting of the tongue (7) with a splitting tool along a transversal line that is positioned to permit the remaining portion of this tongue to fit into the groove (11) of a further similar block (1) stacked on top of the present block with the front side (3) of this further similar block (1) extending in a same vertical plane as the first side of the present block (1). As a result, one may stack the above mentioned blocks (1) as such, the resulting wall being then battered, or one may stack the above mentioned blocks after having splitted their tongues, the resulting wall being then vertical.

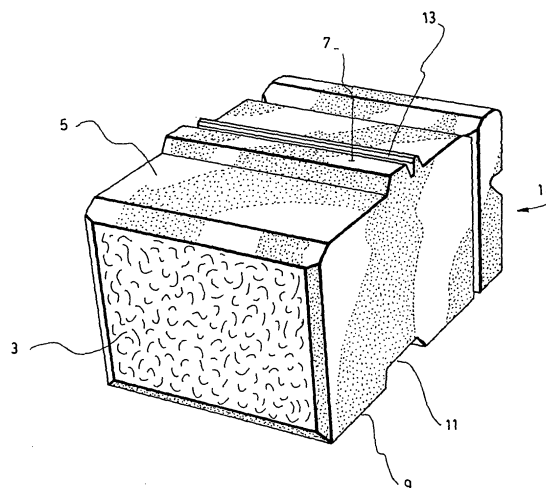


FIG. 2



EUROPEAN SEARCH REPORT

 Application Number
 EP 05 07 6174

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 816 749 A (BAILEY II JOSEPH S [US]) 6 October 1998 (1998-10-06) * figures 6-8 *	1-9	INV. E02D29/02 E04C1/39
X	WO 94/13890 A (GEOBLOCK INTERFACE [GB]; MARTIN CHRISTOPHER [GB]) 23 June 1994 (1994-06-23) * figures 5-7 *	1-9	
A	EP 1 180 561 A (FREYSSINET INT STUP [FR]) 20 February 2002 (2002-02-20) * figures 5,6 *	1-9	
A	EP 0 181 230 A (CRIGHTON JOHN WATSON [GB]; CRIGHTON HELEN MARGARET LORNA [GB]) 14 May 1986 (1986-05-14) * figures 5-8 *	1-9	
E	US 2005/274085 A1 (RISI ANGELO [CA]) 15 December 2005 (2005-12-15) * the whole document *	1-9	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			E02D E04B
Place of search		Date of completion of the search	Examiner
The Hague		2 April 2009	Andlauer, Dominique
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			

 1
 EPO FORM 1503 03.82 (P04C01)

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

EP 05 07 6174

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.

02-04-2009

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5816749	A	06-10-1998	NONE	

WO 9413890	A	23-06-1994	AT 160608 T	15-12-1997
			AU 673039 B2	24-10-1996
			AU 5658194 A	04-07-1994
			CA 2151955 A1	23-06-1994
			DE 69315445 D1	08-01-1998
			DE 69315445 T2	14-05-1998
			DK 677128 T3	10-08-1998
			EP 0677128 A1	18-10-1995
			ES 2111898 T3	16-03-1998
			GR 3026060 T3	29-05-1998
			JP 3459830 B2	27-10-2003
			JP 8507339 T	06-08-1996
			NZ 258630 A	24-11-1997
			US 5607262 A	04-03-1997

EP 1180561	A	20-02-2002	FR 2812893 A1	15-02-2002

EP 0181230	A	14-05-1986	DE 3576713 D1	26-04-1990

US 2005274085	A1	15-12-2005	NONE	

EPO FORM P0459

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