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#### (54) TABLE FOR MANUFACTURING A HOLLOWCORE CONCRETE SLAB

(57) The present invention relates to a method of manufacturing a hollowcore concrete slab comprising fixing an active reinforcement to a table, the table extending along a longitudinal direction, the table comprising a table surface, the active reinforcement extending above the table surface and parallel to the table surface along the longitudinal direction of the table; prestressing the active reinforcement; pouring concrete into a mold formed by

the table and at least two side walls; curing the concrete into a hollowcore concrete slab; removing the hollowcore concrete slab from the mold; wherein a passive reinforcement is provided in the concrete after the concrete has been poured and before the concrete has cured. The invention also relates to a table for manufacturing a hollowcore concrete slab and a use of the method or the table for manufacturing a hollowcore concrete slab.



## **EUROPEAN SEARCH REPORT**

**Application Number** 

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of relevant passages EP 1 918 081 A1 (RECTOR 7 May 2008 (2008-05-07) * paragraph [0018] - pa figures 1-8b *  US 2007/125017 A1 (BLOUR 7 June 2007 (2007-06-07 * paragraph [0048] - pa figures 6-8 *  DE 921 138 C (WETTSTEIN 9 December 1954 (1954-1 * page 3, line 103 - pa figures *	ragraph [0024];  NT BRIAN M [US]) ) ragraph [0050];  KOM GES) 2-09) ge 5, line 112;	1,3-9, 11-13 2,10 1,3-5,9, 12,13	INV. B28B23/02 B28B23/04 B28B23/06	
7 May 2008 (2008-05-07) * paragraph [0018] - pa figures 1-8b *  US 2007/125017 A1 (BLOU 7 June 2007 (2007-06-07 * paragraph [0048] - pa figures 6-8 *  DE 921 138 C (WETTSTEIN 9 December 1954 (1954-1 * page 3, line 103 - pa figures *	ragraph [0024];  NT BRIAN M [US]) ) ragraph [0050];  KOM GES) 2-09) ge 5, line 112;	11-13 2,10 1,3-5,9, 12,13	B28B23/02 B28B23/04	
* paragraph [0018] - pa figures 1-8b *  US 2007/125017 A1 (BLOU 7 June 2007 (2007-06-07 * paragraph [0048] - pa figures 6-8 *  DE 921 138 C (WETTSTEIN 9 December 1954 (1954-1 * page 3, line 103 - par figures *	THE RIAN M [US])  ragraph [0050];  KOM GES)  2-09)  ge 5, line 112;	2,10 1,3-5,9, 12,13	B28B23/04	
Figures 1-8b * US 2007/125017 A1 (BLOU) 7 June 2007 (2007-06-07 * paragraph [0048] - pa Figures 6-8 * DE 921 138 C (WETTSTEIN 9 December 1954 (1954-1) * page 3, line 103 - pa figures *	THE RIAN M [US])  ragraph [0050];  KOM GES)  2-09)  ge 5, line 112;	1,3-5,9,		
US 2007/125017 A1 (BLOU 7 June 2007 (2007-06-07 * paragraph [0048] - pa figures 6-8 * DE 921 138 C (WETTSTEIN 9 December 1954 (1954-1 * page 3, line 103 - par figures *	NT BRIAN M [US]) ) ragraph [0050];	12,13	B28B23/06	
US 2007/125017 A1 (BLOUD 7 June 2007 (2007-06-07 * paragraph [0048] - pa figures 6-8 * DE 921 138 C (WETTSTEIN 9 December 1954 (1954-1 * page 3, line 103 - pac figures *	NT BRIAN M [US]) ) ragraph [0050];	12,13		
7 June 2007 (2007-06-07  * paragraph [0048] - pa figures 6-8 *  DE 921 138 C (WETTSTEIN 9 December 1954 (1954-1  * page 3, line 103 - pa figures *	) ragraph [0050];     KOM GES) 2-09) ge 5, line 112;	12,13		
* paragraph [0048] - pa figures 6-8 *  DE 921 138 C (WETTSTEIN 9 December 1954 (1954-1 * page 3, line 103 - pa figures *	ragraph [0050];  KOM GES) 2-09) ge 5, line 112;	·		
figures 6-8 *  DE 921 138 C (WETTSTEIN 9 December 1954 (1954-1 * page 3, line 103 - pa figures *	 KOM GES) 2-09) ge 5, line 112;	1-13		
DE 921 138 C (WETTSTEIN DE December 1954 (1954-1 page 3, line 103 - pa figures *	2-09) ge 5, line 112;	1-13		
9 December 1954 (1954–1 * page 3, line 103 – pa figures *	2-09) ge 5, line 112;	1-13		
9 December 1954 (1954–1 * page 3, line 103 – pa figures *	2-09) ge 5, line 112;			
* page 3, line 103 – pa figures *	ge 5, line 112;			
figures *				
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			TECHNICAL FIELDS SEARCHED (IPC)	
			в28в	
The present search report has been dr	awn up for all claims			
Place of search	Date of completion of the search		Examiner	
The Hague	23 October 2024	Ori	j, Jack	
TEGORY OF CITED DOCUMENTS				
X : particularly relevant if taken alone after the filing date Y : particularly relevant if combined with another D : document cited in the		ate		
		D : document cited in the application		
ological background		& : member of the same patent family, corresponding		
I	Place of search  Phe Hague  TEGORY OF CITED DOCUMENTS  ularly relevant if taken alone ularly relevant if combined with another tent of the same category	The Hague  23 October 2024  TEGORY OF CITED DOCUMENTS  Islarly relevant if taken alone Islarly relevant if combined with another Ient of the same category Islarly relevant if to the same category Islarly relevant if the filing of D: document cited ological background Iritten disclosure  23 October 2024  T: theory or princip E: earlier patent do after the filing of D: document cited D: document cited L: document cited Islarly relevant if taken alone Attributed  E: member of the same category  E: member of the same category	Place of search  Date of completion of the search  Phe Hague  23 October 2024  Ori  EGORY OF CITED DOCUMENTS  It is earlier patent document, but publication of the same category  Is earlier patent document, but publication is earlier patent document.	

#### EP 4 434 705 A3

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

EP 24 19 4669

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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.

23-10-2024

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		A1 07-05-2008	EP 1918081 A1 FR 2907704 A1	07-05-2008 02-05-2008
15	US 2007125017	A1 07-06-2007	NONE	
		C 09-12-1954	NONE	
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35				
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82