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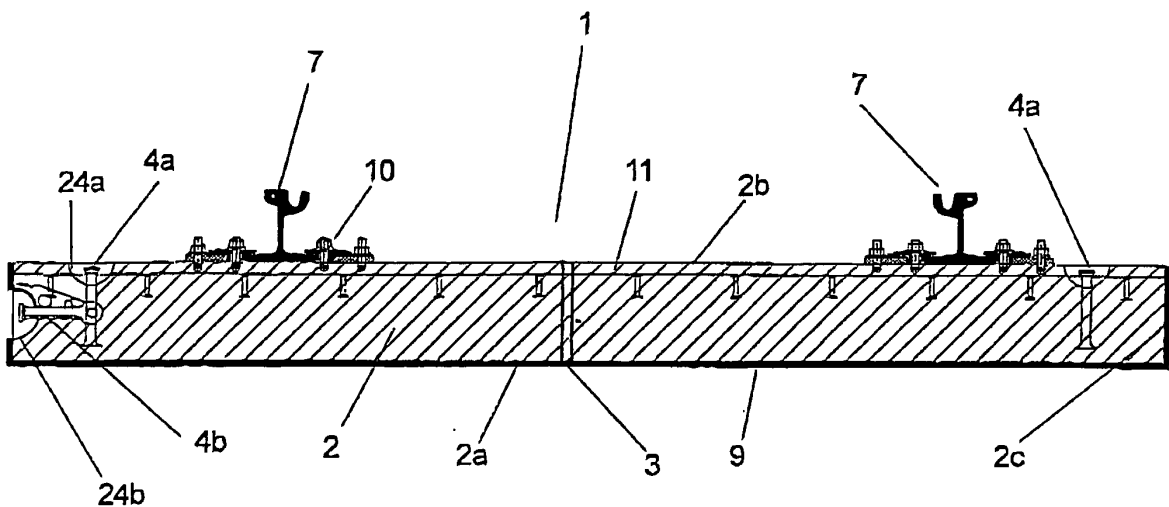
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(54) **Prefabricated modular member, permanent railway for tramways and subways including said member, and process for laying the same**

(57) The present invention is a prefabricated modular member (1) for making a permanent way, including tracks and track equipment, comprising a reinforced concrete platform (2) having two main surfaces and one lateral peripheral surface, at least one vent-hole (3) whose ends open out of these two main surfaces, a plurality of level adjustment elements to adjust the height and inclination of the platform, at least one pair of rails (7) or special

track equipment parts secured to one of the main surfaces of the platform, characterized in that it includes a plurality of first anchors (4a) at one of said main surfaces to allow lifting and handling of the platform, and in that rails or special track equipment parts are anchored to the platform by means of screws, which are held in guides (11) embedded in the platform, these guides being oriented transverse to the rails.



**Fig. 1**

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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 (IPC)	
D,Y A	DE 199 48 003 A1 (MAX BOEGL BAUNTERNEHMUNG GMBH & CO KG) 12 April 2001 (2001-04-12) * column 7, line 3 - column 8, line 37; figures 1,2 *	1-16	INV. E01B1/00 E01B21/00 E01B3/40 E01B9/66 E01B9/28	
Y	FR 2 228 892 A1 (KRUPP AG HUETTENWERKE [DE]) 6 December 1974 (1974-12-06) * page 6, paragraphs 2,5 * * page 7; figures 3-5,8-11 *	1-16		
A	EP 0 327 247 A2 (AMATEK LTD [AU]) 9 August 1989 (1989-08-09) * figures *	1		
A	WO 91/00400 A (PREFATECH AB) 10 January 1991 (1991-01-10) * figures 1-4 *	1		
A	US 4 173 856 A (FRICKER, SIEGFRIED) 13 November 1979 (1979-11-13) * figures 1,2 *	2		TECHNICAL FIELDS SEARCHED (IPC)
A	US 4 948 073 A (EDWARDS ET AL) 14 August 1990 (1990-08-14) * abstract; figure 1 *	6		E01B
D,A	EP 0 983 400 B1 (MECNO RAIL S R L [IT]) 25 September 2002 (2002-09-25) * paragraph [0012]; figures *	9		
The present search report has been drawn up for all claims				
Place of search The Hague		Date of completion of the search 12 January 2007	Examiner Movadat, Robin	
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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ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

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12-01-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19948003	A1	12-04-2001	AT 322579 T	15-04-2006
			AU 773566 B2	27-05-2004
			AU 7420500 A	10-05-2001
			BG 64131 B1	30-01-2004
			BG 106500 A	29-12-2002
			BR 0014462 A	22-10-2002
			CA 2387698 A1	12-04-2001
			CN 1377438 A	30-10-2002
			CN 1807757 A	26-07-2006
			CZ 20020964 A3	14-08-2002
			EA 3179 B1	27-02-2003
			EE 200200177 A	15-04-2003
			WO 0125538 A1	12-04-2001
			EP 1218596 A1	03-07-2002
			ES 2260052 T3	01-11-2006
			HR 20020284 A2	30-04-2004
			HU 0202735 A2	28-02-2003
			IL 148754 A	25-09-2005
			JP 3829091 B2	04-10-2006
			JP 2003511586 T	25-03-2003
			PL 354319 A1	12-01-2004
			SK 4532002 A3	08-10-2002
			TR 200200900 T2	21-08-2002
			UA 71642 C2	15-12-2004
			FR 2228892	A1
AT 338874 A	15-11-1975			
BE 814061 A1	16-08-1974			
CH 573516 A5	15-03-1976			
DE 2324152 B1	27-06-1974			
LU 70049 A1	01-10-1974			
NL 7403365 A	14-11-1974			
SE 7406317 A	31-01-1975			
EP 0327247	A2	09-08-1989	AU 630083 B2	22-10-1992
			AU 2864689 A	10-08-1989
			CN 1036239 A	11-10-1989
			US 4946099 A	07-08-1990
			ZA 8900543 A	25-10-1989
WO 9100400	A	10-01-1991	SE 463774 B	21-01-1991
			SE 8902347 A	29-12-1990
US 4173856	A	13-11-1979	AU 518032 B2	10-09-1981
			AU 3294478 A	09-08-1979
			CA 1065366 A1	30-10-1979

EPO FORM P0459

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

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

EP 05 02 8361

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.

12-01-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4173856	A	GB 1595533 A	12-08-1981
US 4948073	A	14-08-1990	NONE
EP 0983400	B1	25-09-2002	AT 224979 T 15-10-2002
			AU 7764098 A 08-12-1998
			DE 69808285 D1 31-10-2002
			WO 9851863 A1 19-11-1998
			EP 0983400 A1 08-03-2000
			IT VE970018 A1 13-11-1998