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(54) **Variably connected bridge drainer**

(57) The bottom part of the bridge drainer consists of the tray (3). The outlet of the tray (3) is joined to the bridge draining system and the top rim of said tray (3) is shaped to form the collar (3C). On this collar (3C) the waterproofing (11) is located on which the set of the frame (2) with the grating (1) is laid. The grating (1) is joined with the frame (2) by means of the hinge (5) which is located so that the axial junction is perpendicular to the traffic direction on the bridge. The frame (2) has a circular opening in itself on the circumference of which the limiting lugs (10) are made to limit the rotational rectification, said limiting lugs (10) having the shape of opposite located sectors, rotated by 45° against the vertical axis of said frame (2). The bottom part of said frame (2) is provided with the grooves (9) to drain off the surface of the waterproofing (11) of the bridge. If needed, the drainer system can be modified, during assembling, for diverse thicknesses of the bridge floor layer set by relevant combination of dimensional variants of the rectification rings (4), inserted between the waterproofing (11) and said frame (2). According to the requirement on the water outlet direction, the tray (3) with the vertical outlet (3A) or the tray (3) with the side outlet (3B) can be used.

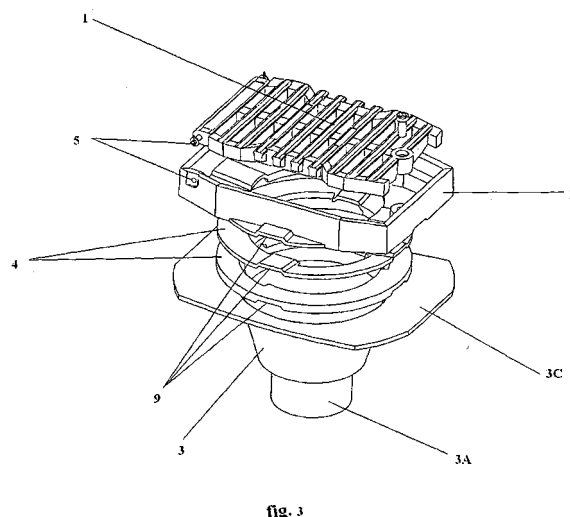


fig. 3



EUROPEAN SEARCH REPORT

Application Number
EP 09 00 2165

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	DE 19 43 617 A1 (PASSAVANT WERKE) 6 April 1972 (1972-04-06) * page 1, lines 1-3 * * page 2, lines 22-24 * * page 3, lines 16-25 * * page 5, line 22 - page 6, line 4 * * page 7, lines 4-8 * * page 8, line 8 - page 10, line 4; figures 1-3 *	1-3	INV. E01D19/08
A,D	EP 1 359 255 A2 (VLCEK RADEK [CZ]; VLCEK PETR [CZ]) 5 November 2003 (2003-11-05) * abstract; figures 1,2 *	1	
A	CH 442 399 A (STREICHER FA M [DE]) 31 August 1967 (1967-08-31) * column 3, lines 58-68; figures 1,2 *	1	
X	DE 39 02 791 C1 (JOHANA LÖFFLER) 13 June 1990 (1990-06-13) * the whole document *	1-3	
A	DD 16 592 A1 (LOEFFLER WALTER; LOEFFLER JOHANNA) 24 March 1959 (1959-03-24) * the whole document *	1	
A	DE 90 03 409 U1 (PASSAVANT WERKE AG.) 31 May 1990 (1990-05-31) * page 2, lines 1-9; figures 1-4 *	1,2	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 14 April 2011	Examiner Gallego, Adoración
<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 & : 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 09 00 2165

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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14-04-2011

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 1943617	A1	06-04-1972	DE 6808886 U	16-10-1969
EP 1359255	A2	05-11-2003	CZ 20021544 A3	17-03-2004
CH 442399	A	31-08-1967	NONE	
DE 3902791	C1	13-06-1990	NONE	
DD 16592	A1	24-03-1959	NONE	
DE 9003409	U1	31-05-1990	NONE	