



(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
23.08.2006 Bulletin 2006/34

(51) Int Cl.: **E02D 27/34** ^(2006.01) **E04H 9/02** ^(2006.01)

(43) Date of publication A2:
08.12.2004 Bulletin 2004/50

(21) Application number: **04386019.6**

(22) Date of filing: **02.06.2004**

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

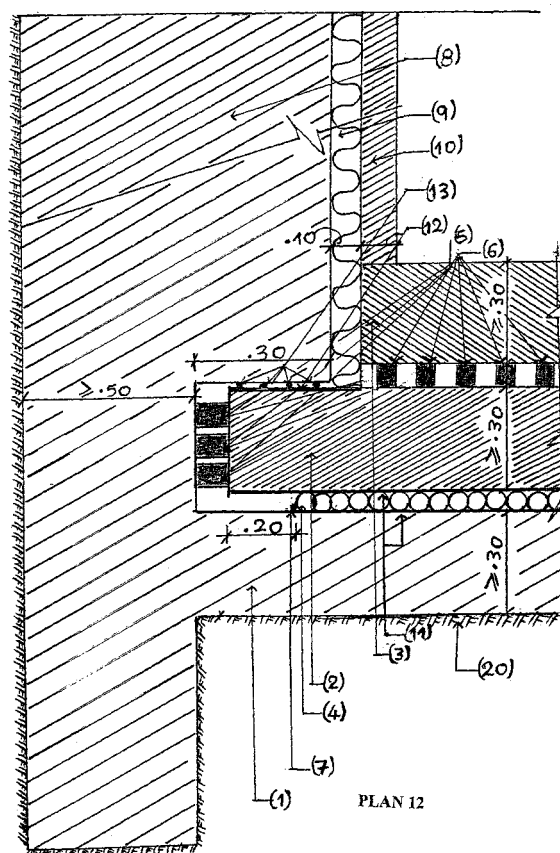
(71) Applicant: **Drougos, Nikolaos**
116 34 Athens (GR)

(72) Inventor: **Drougos, Nikolaos**
116 34 Athens (GR)

(30) Priority: **02.06.2003 GR 2003000248**

(54) **Aseismic foundation**

(57) The aseismic foundation consists of three plates (1,2,3) of reinforced concrete. Plate (1) touches the ground (20). Between plate (1) and plate (2) there are rigid metal spheres (4), and between plate (2) and plate (3), there are vertical compression-tension springs (6). Plate (2) is connected with horizontal compression-tension springs (5), to a reinforced concrete anchor wall (3), which is fixed to the ground (20) and solid-webbed attached to plate (1). Thus, the anchor wall (8) and plate (1) follow exactly the movement of the ground (20). The horizontal metal springs (5) are positioned symmetrical and perimetrical on plate (1), having the same total elastic constant for both its vertical directions. The total elastic constant of spring (5) is such, that the characteristic period of the horizontal movement of the system plate (2), plate (3), springs (5) superstructure (19), is equal with the characteristic period of the horizontal component of the ground vibration. The vertical compression-tension springs (6) have a total elastic constant, which allows for the characteristic period of the vertical movement of the system plate (3), vertical springs (6), superstructure (19), to be double than the characteristic period of the vertical movement of the ground (20).





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 38 6019

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07, 31 July 1997 (1997-07-31) -& JP 09 089044 A (SAGARA TOSHIO), 31 March 1997 (1997-03-31) * abstract; figure 6 *	1	INV. E02D27/34 E04H9/02
Y	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02, 2 April 2002 (2002-04-02) & JP 2001 280418 A (FUJIKURA RUBBER LTD), 10 October 2001 (2001-10-10) * abstract; figure 1 *	1	
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 326 (M-441), 21 December 1985 (1985-12-21) & JP 60 159227 A (KAJIMA KENSETSU KK), 20 August 1985 (1985-08-20) * abstract *	3	
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05, 14 September 2000 (2000-09-14) -& JP 2000 055117 A (OHBAYASHI CORP; DAIDO SEIMITSU KOGYO KK), 22 February 2000 (2000-02-22) * abstract; figure 2 *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			E02D E04H E04B
1	Place of search The Hague		Date of completion of the search 13 July 2006
		Examiner Leroux, C	
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			

EPO FORM 1503 03/02 (P04C01)

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

EP 04 38 6019

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.

13-07-2006

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 09089044	A	31-03-1997	NONE	

JP 2001280418	A	10-10-2001	NONE	

JP 60159227	A	20-08-1985	NONE	

JP 2000055117	A	22-02-2000	NONE	
