



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**02.11.2006 Bulletin 2006/44**

(51) Int Cl.:  
**E04B 1/98 (2006.01) E04H 9/02 (2006.01)**

(43) Date of publication A2:  
**25.10.2006 Bulletin 2006/43**

(21) Application number: **05103635.8**

(22) Date of filing: **02.05.2005**

(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**

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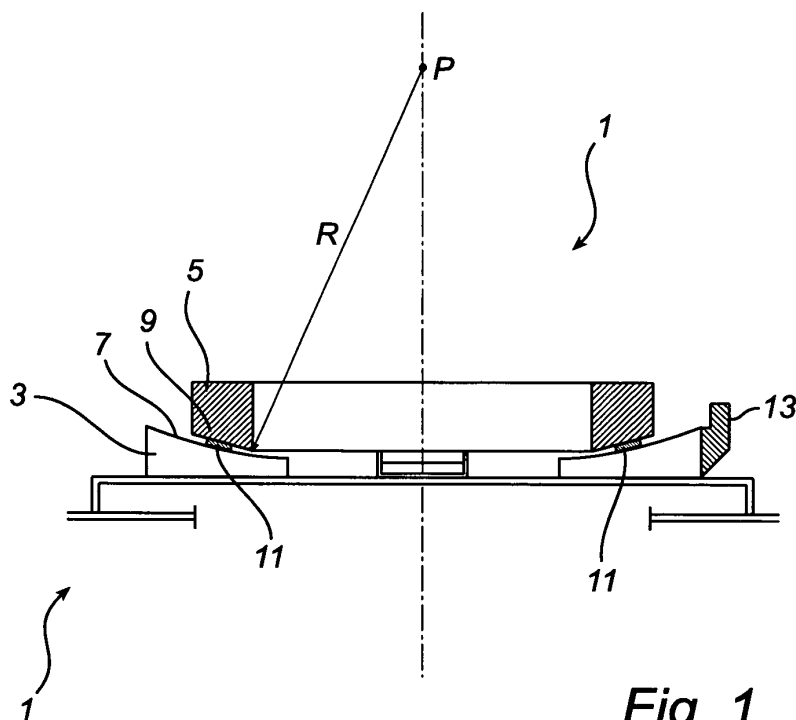
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(30) Priority: **21.04.2005 EP 05103223**

(54) **Eigenfrequency oscillation dampering unit**

(57) An eigenfrequency oscillation dampering unit (1) for a tall construction is disclosed. It comprises a support structure (3) under a mass member (5) and receiving the mass member (5), and the support structure (3) presenting a first spherical feature (7). The mass member (5) presents a second spherical feature (9) matching the first spherical feature. The first and second spherical features (7, 9) present a radius corresponding to a length of a mathematical pendulum, wherein the radius is related

to an eigenfrequency of the tall construction. The first spherical feature (7) and the second spherical feature (9) presents an essentially common center point. A contact means (11) is arranged on one of the mass member (5) and the support structure (3), and between the first spherical feature (7) and the second spherical feature (9), allowing the mass member (5) to move in relation to the support structure (3). Non limiting Applications of the present invention include a windmill, a chimney, and a building.



**Fig. 1**



European Patent  
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## EUROPEAN SEARCH REPORT

Application Number  
EP 05 10 3635

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A		7,9,10,12	
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 26 September 2006	Examiner Kriekoukis, Sotirios
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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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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