

Title (en)
Dynamic pendulous shock absorber

Title (de)
Dynamischer pendulartiger Stossdämpfer

Title (fr)
Dispositif d'absorbeur dynamique pendulaire

Publication
EP 1329565 A1 20030723 (FR)

Application
EP 02290090 A 20020115

Priority
EP 02290090 A 20020115

Abstract (en)
The damper consists of a complex pendulum of reduced height, being some 40 per cent lower than a simple pendulum of the same frequency, made by raising its imaginary centre of rotation. It consists of a secondary weight (m1) connected to a spring (L1) of stiffness (k), to which a pendulum of length (L2) supporting a weight (m2) is attached. The spring (L1) can be in the form of a steel strip fixed at its lower end and equipped at its upper end with an articulated joint. The movement of the weight (m1) on its spring allows the imaginary centre of rotation about which weight (m2) is balanced to be raised, while the period of the pendulum is easily adjusted by modifying the stiffness of the spring.

Abstract (fr)
Dispositif pendulaire permettant l'absorption dynamique des mouvements des structures souples, caractérisé par sa faible hauteur. L'absorbeur est accordé sur les fréquences de résonance de l'ouvrage. <IMAGE>

IPC 1-7
E04B 1/98

IPC 8 full level
E04B 1/98 (2006.01)

CPC (source: EP)
E04H 9/0215 (2020.05)

Citation (search report)

- [X] EP 0474269 A1 19920311 - MITSUBISHI HEAVY IND LTD [JP]
- [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 691 (M - 1731) 26 December 1994 (1994-12-26)
- [X] PATENT ABSTRACTS OF JAPAN vol. 011, no. 215 (M - 606) 11 July 1987 (1987-07-11)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 01 31 January 1997 (1997-01-31)

Cited by
CN107250595A; GB2473698A; US6709694B1; WO2012121694A1

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