

Title (en)

DISSIPATOR PANELS AND RESPECTIVE BUILDING SYSTEM

Title (de)

ENERGIEUMWANDLUNGSPLETTEN UND ENTSPRECHENDES GEBÄUDESYSTEM

Title (fr)

PANNEAUX DISSIPATEURS ET SYSTÈME DE CONSTRUCTION CORRESPONDANT

Publication

**EP 3012379 A1 20160427 (EN)**

Application

**EP 15190995 A 20151022**

Priority

PT 10797814 A 20141022

Abstract (en)

This application describes dissipator panels for seismic reinforcement of buildings that reduce the seismic vulnerability of the constructions that incorporate them, and the respective construction system. Each dissipator panel corresponds to a flat articulated structure comprised of a dissipative central device (1), by diagonals (2), uprights (3), crossbars (4) and connections (5). The uprights (3) correspond to the vertical elements and the crossbars (4) to the horizontal elements, which are placed at the level of the floors. The uprights (3) and the crossbars (4) form a square or rectangular flat structure. The central dissipator (1) is positioned by matching its geometric center with the intersection of the diagonals of the parallelogram formed by the uprights (3) and by the crossbars (4). To the central dissipator device (1) the diagonals (2) of the dissipator panels are connected, corresponding to inclined bars according to the diagonals of the parallelogram.

IPC 8 full level

**E04B 1/98** (2006.01); **E04H 9/02** (2006.01)

CPC (source: EP US)

**E04G 23/0218** (2013.01 - EP); **E04G 23/0296** (2013.01 - EP); **E04H 9/0237** (2020.05 - EP US)

Citation (applicant)

- C6IAS, V.: "Reabilitação Estrutural de Edifícios Antigos", ARGUMENTUM, 2007
- LOPES, M.: "Sismos e Edifícios", June 2008
- GUERREIRO, L.; CRAVEIRO, A.; BRANCO, M.: "Progress in Structural Engineering and Materials", vol. 8, 10 October 2006, WILEY INTERSCIENCE, article "The use of passive seismic protection in structural rehabilitation"
- M. FORNI ET AL.: "Development of Innovative anti-Seismic Systems in the Framework of the LessLoss European Integrated Project", 10TH WORLD CONFERENCE ON SEISMIC ISOLATION, ENERGY DISSIPATION AND ACTIVE VIBRATIONS CONTROL OF STRUCTURES, ISTANBUL, TURKEY, 28 May 2007 (2007-05-28)
- PAULA, R.; C6IAS, V.; VASQUES, F.: "Development of innovative anti-seismic systems in the framework of the LessLoss and other research projects", LNEC, LISBON, 30 October 2007 (2007-10-30)

Citation (search report)

- [XII] US 4409765 A 19831018 - PALL AVTAR S [CA]
- [XII] US 2006150538 A1 20060713 - THOMAS GARETH R [US]
- [XII] JP S5319655 A 19780223 - KAJIMA CORP, et al
- [XII] EP 1882797 A2 20080130 - SMI PATENT HOLDINGS GROUP LLC [US]
- [XII] US 2010107519 A1 20100506 - REAVELEY LAWRENCE D [US], et al

Cited by

KR102156870B1; CN108518114A; IT201800005726A1; CN111622521A; CN108412071A; CN109138482A; CN110017033A; CN110644838A

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