

Title (en)
Eigenfrequency oscillation dampering unit

Title (de)
Dämpfungseinheit mit Eigenschwingung

Title (fr)
Unité d'amortissement avec fréquence propre d'oscillation

Publication
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Application
EP 05103635 A 20050502

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Abstract (en)
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.

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CPC (source: EP US)
E04H 9/021 (2013.01 - EP US); **E04H 9/0215** (2020.05 - EP)

Citation (applicant)
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