

Title (en)
EARTHQUAKE PROOF BUILDING SYSTEM

Title (de)
ERDBEBENSICHERES GEBÄUDESISTEM

Title (fr)
SYSTÈME DE CONSTRUCTION PARASISMIQUE

Publication
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Application
EP 13739528 A 20130517

Priority
• TR 201214397 A 20121211
• TR 2013000163 W 20130517

Abstract (en)
[origin: WO2014092663A1] This invention, which can be applied on all kinds of separate regime buildings, which relates to a non-earthquake building system that eliminates the destructive effect of the earthquake and prevents loss of lives and property in medium or severe intensity earthquakes by damping the earthquake forces within two foundation structures moving independently of each other in impact cantilevers before the earthquake forces acting on the building are transferred from the foundation of the building to the upper floors, generally comprises the fixed foundation the 1st Foundation (1) which enables the building to hold on the ground, the 2nd Foundation (2) which moves on the 1st Foundation (1), the foundation cantilever (3) of the 2nd Foundation (2), the impact cantilever (4) as the structural element surrounding the 1st Foundation (1), the structural element external curtain (5) which meets ground actions and forms the structural cavity, the earthquake wedge (6) which dampens a portion of the impact energy during the impact of the foundation cantilever (3) to the impact cantilever (4), the movement mechanism(7) which enables the articulated movement between the 1st Foundation (1) and the 2nd Foundation (2), the support panel(8) which is the structural element which enables ground actions to be supported safely by the external curtain(5) and increases the strength of the impact cantilever (4), the reinforced concrete cap (9) which prevents foreign materials from entering the structure's travel cavity and tension piles (10) which are the structural elements that prevent the tipping over of the structure connected to the 1st Foundation (1).

IPC 8 full level
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CPC (source: CN EP US)
E02D 27/34 (2013.01 - CN US); **E04H 9/021** (2013.01 - CN EP US); **E04H 9/023** (2013.01 - CN EP US)

Citation (search report)
See references of WO 2014092663A1

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