(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) **EP 3 819 435 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 22

(48) Corrigendum issued on:
11.05.2022 Bulletin 2022/19

(43) Date of publication:
12.05.2021 Bulletin 2021/19

(21) Application number: **19814907.2**

(22) Date of filing: **30.05.2019**

(51) International Patent Classification (IPC):
E02D 27/00 *(2006.01)* ***E02D 27/32*** *(2006.01)*
E02D 27/34 *(2006.01)* ***E02D 31/00*** *(2006.01)*
E02D 31/08 *(2006.01)* ***E04H 9/00*** *(2006.01)*
E04H 9/02 *(2006.01)*

(52) Cooperative Patent Classification (CPC):
E04H 9/021; E02D 27/34; E02D 31/08

(86) International application number:
PCT/KZ2019/000008

(87) International publication number:
WO 2019/235909 (12.12.2019 Gazette 2019/50)

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

(30) Priority: **05.06.2018 KZ 20180375**

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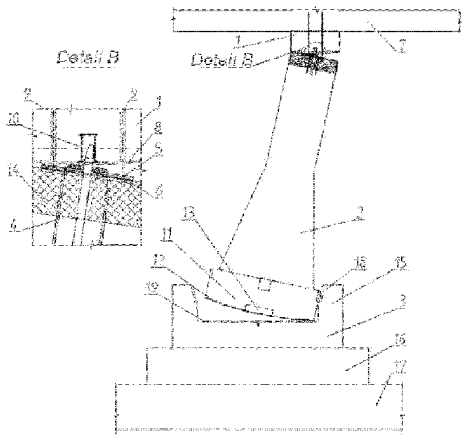
(54) EARTHQUAKE-RESISTANT FOUNDATION

(57) The invention relates to the design and construction of residential, public and industrial buildings and structures having a flexible framework and earthquake-resistant kinematic foundations. An earthquake-resistant foundation consists of a supporting structure, and an upright post with a cylindrical heel having a spherical lower surface that constitutes a portion of a sphere having a radius R freely supported on a flat supporting foundation, said supporting structure and said upright post being hingedly connected to one another and being protected against corrosion. The spherical surface of the heel has a radius R = 1,05H to R = 1,2H and is provided with an insert member. The insert member is spherically shaped with flat edges and a flat centre portion, and the lateral surface of the upright post, beginning from the middle downwards, forms a conical surface. The claimed invention achieves the technical effect of providing more effective earthquake-resistance for buildings and reducing material outlay.

Figure.2 Position during seismic load



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