Title (en)

CENTRIFUGAL FORCE PENDULUM DEVICE

Title (de)

FLIEHKRAFTPENDELEINRICHTUNG

Title (fr)

DISPOSITIF DE PENDULE À FORCE CENTRIFUGE

Publication

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Application

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Abstract (en)

[origin: WO2017025092A1] The invention relates to a centrifugal force pendulum device (1) comprising pendulum elements (2, 3, 4) that can rotate about a rotational axis (d) and are axially layered, at least two axially opposite pendulum elements (2, 3) being connected to each other to a first pendulum unit (7) by means of connecting elements (9), and at least one pendulum element (4) forming a second pendulum unit (8) that is arranged axially between the pendulum elements (2, 3) of the first pendulum unit (7). The connecting elements (9) traverse recesses of the second pendulum unit (8) and one of the pendulum units (8) is radially fixed with respect to the axis of rotation (d) and the other pendulum unit (7) is designed to be able to oscillate on a pendulum path in relation to the fixed pendulum unit (8) by means of at least one pendulum bearing (12) that is formed by the pendulum roller tracks (13, 14) associated with the pendulum units (7, 8) and a rolling element (15) rolling off on these pendulum roller tracks (13, 14). In order to reduce the number of parts to be used and to increase the insulating effect of the centrifugal force pendulum (1), the at least one pendulum bearing (12) is formed between the connecting elements (9) of the first pendulum unit (7) and of the second pendulum unit (8).

IPC 8 full level

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