

Title (en)
Oscillation mechanism

Title (de)
Oszilliervorrichtung

Title (fr)
Mécanisme d'oscillation

Publication
EP 1691080 B1 20101124 (EN)

Application
EP 05017271 A 20050809

Priority
US 5778505 A 20050215

Abstract (en)
[origin: EP1691080A2] A suspension type oscillation mechanism includes a frame set (1), a casing (2), a crank set (3), an axial barrel (4) and a fastening rod (6). The frame set (1) provides an upper frame (11) with a frame hole (12). The casing (2) secures the frame set (1). The crank set (3) provides cranks rotationally joining to each other and an end of the initial one of the cranks is connected to an output shaft (32) of a motor eccentrically and the terminal one of the cranks providing a non-circular crank hole. The axial barrel (4) is cylindrical with a size less than the frame hole (12) and the casing hole (12). A bearing seat is secured to the casing and provides an inner bearing pressed by another end of the axial barrel. The fastening rod set is a screw rod and passes through a suspended article and the axial barrel (4). An upper end of the screw rod (61) engages with the crank hole with a nut and the lower end thereof engages with the suspended article by way of a rod seat. A collar extends from the top of the suspended article and presses against the bottom of the inner bearing.

IPC 8 full level
F04D 25/10 (2006.01)

CPC (source: EP)
F04D 25/105 (2013.01)

Cited by
CN108671617A; GB2479228A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1691080 A2 20060816; EP 1691080 A3 20080326; EP 1691080 B1 20101124; AT E489557 T1 20101215; CN 2835772 Y 20061108; DE 602005024913 D1 20110105; ES 2355976 T3 20110401; PL 1691080 T3 20110531

DOCDB simple family (application)
EP 05017271 A 20050809; AT 05017271 T 20050809; CN 200520119279 U 20050920; DE 602005024913 T 20050809; ES 05017271 T 20050809; PL 05017271 T 20050809