

Title (en)
CLUTCH DISK COMPRISING A CENTRIFUGAL PENDULUM

Title (de)
KUPPLUNGSSCHEIBE MIT FLIEHKRAFTPENDEL

Title (fr)
DISQUE D'EMBRAYAGE À PENDULE CENTRIFUGE

Publication
EP 3158222 A1 20170426 (DE)

Application
EP 15736389 A 20150512

Priority
• DE 102014211723 A 20140618
• DE 2015200309 W 20150512

Abstract (en)
[origin: WO2015192837A1] The invention relates to a clutch disk comprising an input piece which is arranged to be rotatable about an axis of rotation (d) and supports friction linings radially on the outside, and an output piece which is in the form of a hub connected to a transmission input shaft for conjoint rotation therewith, and, optionally, a torsional vibration damper which is arranged radially within the friction linings so as to be effective between the input piece and the output piece in the circumferential direction, and a centrifugal pendulum (1) which comprises a support (2) connected to the hub for conjoint rotation therewith and pendulums (9, 10) that are distributed along the circumference of the support (2) and are suspended thereon so as to oscillate within a centrifugal field of the rotating clutch disk. In order to be able to design the centrifugal pendulum (1) in such a way that same does not create any dynamic loads on the transmission input shaft on at least two orders of oscillation, at least two groups (7, 8) of pendulums are provided, and said at least two groups (7, 8) are alternately distributed along the circumference, are adjusted to different orders of oscillation, and each comprise pendulums (9, 10) that are arranged in such a way as to be rotationally symmetrical to the axis of rotation (d).

IPC 8 full level
F16F 15/14 (2006.01)

CPC (source: CN EP KR)
F16D 13/64 (2013.01 - CN); **F16F 15/145** (2013.01 - CN EP KR); **F16D 13/644** (2013.01 - EP); **F16D 2300/22** (2013.01 - EP)

Citation (search report)
See references of WO 2015192837A1

Designated contracting state (EPC)
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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102014211723 A1 20151224; CN 106461011 A 20170222; CN 106461011 B 20200306; DE 112015002864 A5 20170316; EP 3158222 A1 20170426; KR 102460355 B1 20221028; KR 20170019453 A 20170221; WO 2015192837 A1 20151223

DOCDB simple family (application)
DE 102014211723 A 20140618; CN 201580032128 A 20150512; DE 112015002864 T 20150512; DE 2015200309 W 20150512; EP 15736389 A 20150512; KR 20177001456 A 20150512