

Title (en)  
TORSIONAL VIBRATION DAMPER WITH TORQUE LIMITING CLUTCH

Title (de)  
DREHSCHWINGUNGSDÄMPFER MIT DREHMOMENTBEGRENZER

Title (fr)  
AMORTISSEUR DE VIBRATIONS DE TORSION ET LIMITEUR DE COUPLE

Publication  
**EP 4090860 A1 20221123 (DE)**

Application  
**EP 21702851 A 20210111**

Priority  
• DE 102020100507 A 20200113  
• DE 2021100012 W 20210111

Abstract (en)  
[origin: WO2021143976A1] The invention relates to a torsional vibration damper (1), which is designed as a two-mass fly wheel and comprises a primary part (2) and a secondary part (3) which are arranged to rotate together about an axis of rotation (4) and to be rotatable relative to one another and between which a spring damping device (5) is arranged in the torque flow, wherein the secondary part (3), which is built from a plurality of parts, encloses a torque limiting clutch (12) which is designed as a slipping clutch, and the carrier flange (10) and drive disc (16) of which secondary part are connected by means of at least one friction lining (17, 18), wherein the drive disc (16) is coupled to a output hub (11) and to a centrifugal force pendulum device (24) and the primary part (2) is screwed, by means of screws (29), to a crankshaft of an internal combustion engine, said screws being able to be inserted into bore holes (30) of the primary part (2) through openings (36) in at least one component of the secondary part (3). The output hub (11) is guided axially on a support disc (15) allocated to the carrier flange (10) and is connected by a toothing (31) in an interlocking manner to a drive disc (16), wherein the toothing (31) can be released by an axial displacement of the output hub (11) against the spring force of at least one compression spring (34) and then the output hub (11) can be rotated in order to match the positions of the openings (36) in the output hub (11) with those of the bore holes (30) of the primary part (2).

IPC 8 full level  
**F16F 15/131** (2006.01); **F16F 15/139** (2006.01); **F16F 15/14** (2006.01)

CPC (source: EP)  
**F16F 15/13142** (2013.01); **F16F 15/1397** (2013.01); **F16F 15/145** (2013.01); **F16F 2230/46** (2013.01)

Citation (search report)  
See references of WO 2021143976A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**DE 102020100507 A1 20210715**; CN 114761704 A 20220715; EP 4090860 A1 20221123; WO 2021143976 A1 20210722

DOCDB simple family (application)  
**DE 102020100507 A 20200113**; CN 202180006917 A 20210111; DE 2021100012 W 20210111; EP 21702851 A 20210111