

Title (en)
TORSIONAL VIBRATION DAMPER

Title (de)
DREHSCHWINGUNGSTILGER

Title (fr)
AMORTISSEUR D'OSCILLATIONS DE ROTATION

Publication
EP 2547928 A1 20130123 (DE)

Application
EP 11717930 A 20110224

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Abstract (en)
[origin: WO2011113410A1] The invention relates to a torsional vibration damper, in particular for a drive train of a motor vehicle, comprising a flange part that can be rotated about a rotational axis and a plurality of damper masses, which are arranged on either side of the flange part in such a way as to be distributed over the circumference and which can be moved relative to the flange part, wherein every two axially opposite damper masses arranged on one side of the flange part are connected to each other by means of spacer elements that axially penetrate the flange part to form damper mass pairs, the damper masses of a damper mass pair each have two first raceways distanced from each other in the circumferential direction for one rolling element each, which rolling elements roll on second raceways of the flange part complementary to said first raceways. In order to improve the stability of the torsional vibration damper and to reduce the production costs of the torsional vibration damper, contact surfaces between the rolling elements and the raceways of a damper mass pair are arranged radially inside a center of gravity of the damper mass pair.

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