

Title (en)

TORSIONAL VIBRATION DAMPER HAVING AT LEAST ONE ENERGY STORAGE DEVICE

Title (de)

TORSIONSSCHWINGUNGSDÄMPFER MIT ZUMINDEST EINER ENERGIESPEICHEREINRICHTUNG

Title (fr)

AMORTISSEUR DE TORSION COMPRENANT AU MOINS UN DISPOSITIF D'ACCUMULATION D'ÉNERGIE

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Application

EP 18752118 A 20180802

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Abstract (en)

[origin: WO2019042695A1] The invention relates to a torsional vibration damper (1; 1a; 1b), which is provided with at least one energy storage device (46). Said energy storage device has an input (36), which is connected to a coupling system (18), an output (56; 56a; 56b), which can be rotationally deflected relative to the input against the action of at least one stored energy source (45), and a rotational angle stop (42), which limits the rotational deflection of the output (56; 56a; 56b) relative to the input (36). The torsional vibration damper (1; 1a; 1b) also has a damping system (55, 55b). Said damping system has at least one damper-mass support (49; 49b) for holding at least one damper mass (74; 74b) movable relative to the damper-mass support. The damper-mass support (49; 49b) of the damping system (55, 55b) acts as the output (56; 56a; 56b) of the energy storage device (46). The rotational angle stop (42) is provided at a position of the energy storage device (46) that is located before the at least one stored energy source (45) of said energy storage device (46) in the transmission direction of a torque transmitted by the coupling system (18), such that it is ensured that a torque supplied to the damper-mass support (49; 49b) via the at least one stored energy source (45) is limited to a predefined limit torque by the rotational angle stop (42).

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