

Title (en)

SWITCHABLE ASSEMBLY BEARING WITH HYDRAULIC DAMPING

Title (de)

SCHALTBARES AGGREGATELAGER MIT HYDRAULISCHER DÄMPFUNG

Title (fr)

PALIER DE GROUPES COMMUTABLE A AMORTISSEMENT HYDRAULIQUE

Publication

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Application

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Abstract (en)

[origin: WO03081080A1] The invention relates to a switchable assembly bearing (1) with hydraulic damping, especially for supporting drive and/or gearbox assemblies in motor vehicles. Said bearing comprises at least one working chamber (10) and one compensation chamber (20) which are separated by a dividing wall (50), but hydraulically interconnected by means of a damping channel (60), in addition to at least one other damping channel (70) which can be closed by means of the sealed arrangement of a shut-off body (90) which can be displaced along a displacement path, on an associated seat. According to the invention, the other damping channel is formed and arranged in relation to the axis of symmetry of the bearing, in such a way that the forces acting on the shut-off body by means of the hydraulic fluid counterbalance each other. As a result, virtually no forces act on the shut-off body which can be moved back and forth between a closing position and an opening position by means of only few displacement forces, the actuating mechanism for the shut-off body being significantly simplified and also enabling a significantly simpler and more compact construction of the assembly.

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