

Title (en)

MOTOR VEHICLE DOOR BRAKE WITH HOLDING FUNCTION

Title (de)

KRAFTWAGENTÜRBREMSE MIT HALTEFUNKTION

Title (fr)

FREIN DE PORTE DE VEHICULE AUTOMOBILE A FONCTION DE MAINTIEN

Publication

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Application

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Abstract (en)

[origin: DE19907455A1] The invention relates to a door brake pertaining to a motor vehicle, said brake having a holding function and comprising a closed sleeve component (2) made of metallic material. The sleeve part (2) can be fixed to one of the door assembly parts: door and door post. The door brake also comprises a shaft component (1) that engages with the sleeve component (2) and that consists of a solid metallic material. The shaft component (1) can be fixed to the other door assembly part. The cross-section of the shaft component (1) is provided with a curvature that deviates from the elemental circle form when the shaft component (1) is joined to a complementary embodiment of the shape of the cross-section of the borehole pertaining to the sleeve component (2), whereby the curvature extends over at least a part of the length of the shaft component (1), the length matching the height of the sleeve. The aim of the invention is to create a motor vehicle door brake that is provided with a defined break power at a predetermined door opening angle and that can be produced in a simple manner. The aim of the invention is also to provide structural parts of said door brake, whereby said structural parts have a stress distribution which is as favourable as possible during braking due to elastic changes in the form. To this end, the shape of the cross-section belonging to the shaft component (1) and the sleeve component (2) is convex over the entire circumference thereof. The maximum extension of the shape of the cross-section belonging to the shaft component (1) exceeds the minimal extension of the shape of the cross-section belonging to the sleeve component (2). The braking effect is obtained by an elastic change in the form of the shaft component (1) and the sleeve component (2).

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