

Title (en)

MOTOR VEHICLE DOOR BRAKE WHICH HAS AN OPENING END STOP AND WHICH IS INTEGRATED IN A HINGE

Title (de)

IN EIN SCHARNIER INTEGRIERTE KRAFTWAGENTÜRBREMSE MIT ÖFFNUNGSENDANSCHLAG

Title (fr)

FREIN POUR PORTIERE DE VOITURE, INTEGRE DANS UNE CHARNIERE, AVEC BUTEE DE FIN DE COURSE D'OUVERTURE

Publication

EP 1073819 A1 20010207 (DE)

Application

EP 99907297 A 19990128

Priority

- DE 9900253 W 19990128
- DE 19817739 A 19980421

Abstract (en)

[origin: DE19817739A1] The invention relates to a motor vehicle door brake which has an opening end stop and which is integrated in a hinge. The hinge is comprised of two hinge halves which are interconnected in a jointed manner by means of a hinge pin (3). Said hinge halves can alternately engage with one of both door assembly parts, the door, or the door pillar. The hinge pin is connected to the first hinge half (1) in a rotationally fixed manner and is accommodated in the hinge eye (23) of the first hinge half in a rotational manner. In addition, the door brake comprises at least one engaging part (8) which is supported against one of the hinge halves, and has at least one braking or stopping part. Said braking or stopping part is assigned to the engaging part and is supported against the other hinge half. The aim of the invention is to produce a door brake having a reduced number of individual parts and to obtain a smallest possible construction in which the application of high brake forces rise in an increasing manner over the door opening angle. To this end, the door brake is collectively comprised of at least one engaging part (8) and of at least one braking surface (10, 11). Said engaging part is radially aligned in relation to the hinge axis (3), is connected to one of the hinge halves in a rotationally fixed manner, and can be elastically deformed in a plane which is parallel to the hinge axis (3). Said braking surface is configured on the hinge pin and is limited by an end stop (9). The at least one braking surface (10, 11) which is configured on the hinge pin (3) and which interacts with the engaging part slopes upward in the direction of the hinge axis.

IPC 1-7

E05D 11/08

IPC 8 full level

B60J 5/04 (2006.01); **E05D 11/08** (2006.01)

CPC (source: EP US)

E05D 11/087 (2013.01 - EP US); **E05Y 2201/21** (2013.01 - EP US); **E05Y 2201/25** (2013.01 - EP US); **E05Y 2900/531** (2013.01 - EP US)

Citation (search report)

See references of WO 9954581A1

Designated contracting state (EPC)

DE ES FR GB IT NL PT SE

DOCDB simple family (publication)

DE 19817739 A1 19991104; AU 2711899 A 19991108; BR 9909764 A 20001219; CN 1297506 A 20010530; DE 19980710 D2 20010517; DE 59900297 D1 20011108; EP 1073819 A1 20010207; EP 1073819 B1 20011004; ES 2165728 T3 20020316; JP 2002512329 A 20020423; MX PA00010340 A 20020621; US 6442800 B1 20020903; WO 9954581 A1 19991028

DOCDB simple family (application)

DE 19817739 A 19980421; AU 2711899 A 19990128; BR 9909764 A 19990128; CN 99805020 A 19990128; DE 19980710 T 19990128; DE 59900297 T 19990128; DE 9900253 W 19990128; EP 99907297 A 19990128; ES 99907297 T 19990128; JP 2000544900 A 19990128; MX PA00010340 A 19990128; US 67370801 A 20010122