

Title (en)  
MOTOR VEHICLE DOOR HINGE HAVING AN INTEGRATED BRAKING AND HOLDING FUNCTION

Title (de)  
KRAFTWAGENTÜRSCHARNIER MIT INTEGRIERTER BREMS- UND HALTEFUNKTION

Title (fr)  
CHARNIERE DE PORTIERE DE VOITURE A FONCTION DE FREINAGE ET D'ARRET INTEGREE

Publication  
**EP 1073820 B1 20011024 (DE)**

Application  
**EP 99945725 A 19990128**

Priority  
• DE 9900256 W 19990128  
• DE 19817699 A 19980422

Abstract (en)  
[origin: DE19817699A1] The invention relates to a motor vehicle door hinge having an integrated braking and holding function. Said door hinge is comprised of a first hinge half (1) which acts upon a door assembly part, a door, or a door pillar, and of a second hinge half (2) which acts upon another door assembly part. The door hinge also comprises a hinge pin (3) which pivotally connects both hinge halves to one another. The hinge pin is made of a solid material and is accommodated in at least one hinge eye (14) of a hinge half with a running fit and is accommodated in at least one hinge eye (6) of the other hinge half with a close fit. A braking and holding device which is integrated in the hinge comprises at least one spring-loaded braking and holding body (8). Said braking and holding body is aligned in a radial manner relative to the hinge pin and interacts with a circumferential profile of the hinge pin (3), said profile extending over a part of the circumference thereof. The aim of the invention is to obtain an increasing braking of the opening movement of the doors over a predetermined permitted opening angle of the doors, and inversely to obtain a progressively easier closing movement of the doors. To this end, the circumferential profile of the hinge pin which extends over a part of the circumference thereof forms a braking ramp (9) comprising a contour which continuously increases in the door opening direction. In addition, the braking and holding body (8) which interacts with said braking ramp (9) is configured as a friction body.

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 11/084** (2013.01 - EP US); **E05Y 2900/531** (2013.01 - EP US)

Designated contracting state (EPC)  
DE ES FR GB IT NL PT SE

DOCDB simple family (publication)  
**DE 19817699 A1 19991104**; AU 3247499 A 19991108; BR 9909763 A 20001219; CN 1297507 A 20010530; DE 19980711 D2 20010510; DE 59900355 D1 20011129; EP 1073820 A1 20010207; EP 1073820 B1 20011024; ES 2167119 T3 20020501; JP 2002512330 A 20020423; MX PA00010341 A 20020621; US 6473937 B1 20021105; WO 9954582 A1 19991028

DOCDB simple family (application)  
**DE 19817699 A 19980422**; AU 3247499 A 19990128; BR 9909763 A 19990128; CN 99805111 A 19990128; DE 19980711 T 19990128; DE 59900355 T 19990128; DE 9900256 W 19990128; EP 99945725 A 19990128; ES 99945725 T 19990128; JP 2000544901 A 19990128; MX PA00010341 A 19990128; US 67381600 A 20001022