

Title (en)
MOTOR VEHICLE HINGE WITH A BRAKING AND HOLDING FUNCTION

Title (de)
KRAFTWAGENSCHARNIER MIT BREMS- UND HALTEFUNKTION

Title (fr)
CHARNIERE POUR AUTOMOBILES POURVUE D'UNE FONCTION DE FREINAGE ET DE RETENUE

Publication
EP 1066441 A1 20010110 (DE)

Application
EP 99907298 A 19990128

Priority
• DE 9900254 W 19990128
• DE 19813520 A 19980326

Abstract (en)
[origin: US6490759B1] The invention relates to motor vehicle door hinges with a braking and holding function, consisting of a first hinge half (1) which can be fixed to a door assembly part, door or door post, a second hinge half (2) which can be fixed to the other door assembly part and a hinge pin (3) which consists of a solid material and which connects the two hinge halves (1,2) in such a way that they pivot. The hinge pin (3) is connected to the gudgeon (5) of one hinge half (2) in such a way that it is rotationally fixed and is mounted in the gudgeon (4) of the other hinge half (1) with a running fit. The curvature (7) of the cross-section of said hinge pin also deviates from that of a perfect circle at least over a section (6) of the longitudinal part of the hinge pin which is associated with the particular gudgeon (4), this corresponding with a complementary configuration of the gudgeon bore of the gudgeon of the hinge half in which the hinge pin is mounted with its running fit. In order to ensure that the braking and holding force remains constant with a constant door-opening angle over the entire lifetime of the hinge, the gudgeon bore of the gudgeon (4) in which the hinge pin is mounted with a running fit is sealed steam-tight at both ends, as far as the hinge pin.

IPC 1-7
E05D 11/08; **E05D 11/00**

IPC 8 full level
E05D 5/12 (2006.01); **E05D 11/08** (2006.01)

CPC (source: EP US)
E05D 5/121 (2013.01 - EP US); **E05D 11/084** (2013.01 - EP US); **E05Y 2900/531** (2013.01 - EP US)

Citation (search report)
See references of WO 9949164A1

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

DOCDB simple family (publication)
US 6490759 B1 20021210; AU 2711999 A 19991018; BR 9909066 A 20020115; CN 1295643 A 20010516; CZ 20003540 A3 20011212; DE 19980502 D2 20010510; EP 1066441 A1 20010110; EP 1066441 B1 20010516; ES 2158733 T3 20010901; JP 2002507684 A 20020312; MX PA00009371 A 20020621; WO 9949164 A1 19990930

DOCDB simple family (application)
US 64700800 A 20001211; AU 2711999 A 19990128; BR 9909066 A 19990128; CN 99804460 A 19990128; CZ 20003540 A 19990128; DE 19980502 T 19990128; DE 9900254 W 19990128; EP 99907298 A 19990128; ES 99907298 T 19990128; JP 2000538111 A 19990128; MX PA00009371 A 19990128