

Title (en)
RETRACTING ROOF FOR A PASSENGER MOTOR VEHICLE, PARTICULARLY HARD ROOF FOR TWO-SEATED OR SEVERAL-SEATED CABRIOLETS, ROADSTERS, OR SIMILAR

Title (de)
VERSENKBARES DACH FÜR PERSONENKRAFTFAHRZEUGE, INSBESONDERE HARTDACH FÜR ZWEI- ODER MEHR SITZIGE CABRIOLETS, ROADSTER O.DGL

Title (fr)
TOIT ESCAMOTABLE POUR VOITURES PARTICULIERES, NOTAMMENT TOIT RIGIDE POUR CABRIOLETS, ROADSTERS OU SIMILAIRES A AU MOINS DEUX PLACES

Publication
EP 1483128 A1 20041208 (DE)

Application
EP 03718621 A 20030307

Priority
• DE 0300805 W 20030307
• DE 10212573 A 20020312

Abstract (en)
[origin: WO03076222A1] The invention relates to a retracting roof (1) for passenger motor vehicles, particularly a hard roof for two-seated or multiple-seated cabriolets, roadsters, or similar, comprising a dimensionally stable shell which is provided with a roof part (2) and rear support columns (3) that are connected to the roof part at an obtuse angle, a rear window (11) for a window opening, and a separate first and second stowing space (9) which is disposed immediately behind the seats perpendicular to the longitudinal axis of the vehicle and into which and out of which the roof part (2) with the support columns (3) and the rear window (11) can be moved by guiding means and driving means. The roof part (2) and the support columns (3) thereof are forcibly guided in a kinematic manner along a guideway (6). The aim of the invention is to improve said retracting roof (1) in such a way that the structure obtains the required stiffness at a lower weight and in a compact construction while making said roof (1) smooth-running and mechanically simple and operable. Said aim is achieved by extending the first stowing space (9) all the way to the area located lateral to the seating unit (8) along a curve that is generated correspondingly by the downward and upward movement of the roof part and support columns. The rails (6) which are mounted in a fixed manner on the body structure parallel to the longitudinal axis of the vehicle by means of vertical support plates (7) form guiding devices for the support columns (3), said guiding devices running laterally past the seating unit (8) within the stowing space. The support columns (3) are guided on the rails (6) by means of guide blocks (5) which are disposed at the ends thereof.

IPC 1-7
B60J 7/20; **B60J 7/14**

IPC 8 full level
B60J 7/12 (2006.01); **B60J 7/02** (2006.01); **B60J 7/16** (2006.01); **B60J 7/20** (2006.01); **B60J 7/22** (2006.01)

CPC (source: EP US)
B60J 1/183 (2013.01 - EP US); **B60J 7/0076** (2013.01 - EP US); **B60J 7/028** (2013.01 - EP US); **B60J 7/20** (2013.01 - EP US); **B60J 7/223** (2013.01 - EP US)

Citation (search report)
See references of WO 03076222A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 03076222 A1 20030918; AU 2003222724 A1 20030922; CN 1646341 A 20050727; DE 10212573 A1 20031023; DE 10212573 B4 20040212; EP 1483128 A1 20041208; JP 2005519803 A 20050707; US 2005116494 A1 20050602; US 7156446 B2 20070102

DOCDB simple family (application)
DE 0300805 W 20030307; AU 2003222724 A 20030307; CN 03808537 A 20030307; DE 10212573 A 20020312; EP 03718621 A 20030307; JP 2003574461 A 20030307; US 50752604 A 20040910