

Title (en)

TRIM DOOR HARDWARE CARRIER AND METHODS OF ASSEMBLING VEHICLE DOOR

Title (de)

TÜRVERKLEIDUNGSBESCHLAGTRÄGER UND VERFAHREN ZUR MONTAGE EINER FAHRZEUGTÜR

Title (fr)

SUPPORT DE QUINCAILLERIE DE GARNITURE DE PORTIERE ET PROCEDES D'ASSEMBLAGE DE SUPPORTS DE PORTIERE DE VEHICULE

Publication

EP 1711360 A4 20100505 (EN)

Application

EP 05706468 A 20050207

Priority

- CA 2005000152 W 20050207
- US 77419504 A 20040206

Abstract (en)

[origin: WO2005075226A1] A door module assembly for a motor vehicle door has a plate-like carrier holding a plurality of door hardware components in a pre-configured orientation, including one or more window regulator rails. The carrier seals the motor vehicle door and includes a flap that provides at least partial access to the window regulator rails. A first trim panel is pre-fixed to the carrier. A second trim panel articulates with respect to the first trim panel between an initial position generally parallel to the first trim panel and an installed position generally in-line with the first trim panel. With the carrier storing substantially all of the hardware required for the door and the trim panels covering substantially the entire surface area of the door, handling and assembly operations are minimized.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] WO 03057519 A2 20030717 - INTIER AUTOMOTIVE CLOSURES INC [CA], et al
- [XAYI] DE 20218678 U1 20030213 - BROSE FAHRZEUGTEILE [DE]
- [XY] EP 1043182 A1 20001011 - ANTOLIN GRUPO ING SA [ES]
- [X] EP 1213167 A2 20020612 - ANTOLIN GRUPO ING SA [ES]
- [Y] WO 0125039 A1 20010412 - LAND ROVER GROUP LTD [GB], et al
- [A] DE 20114907 U1 20030130 - JOHNSON CONTROLS GMBH [DE]
- [A] WO 02076776 A1 20021003 - INTIER AUTOMOTIVE INC [US], et al
- [A] WO 0063039 A1 20001026 - ATOMA INT CORP [CA], et al
- [A] US 6615546 B2 20030909 - FURUYAMA JUNICHI [JP], et al
- [A] EP 1275540 A2 20030115 - BAYERISCHE MOTOREN WERKE AG [DE]
- See references of WO 2005075226A1

Citation (examination)

US 4984389 A 19910115 - BENOIT DOMINQUE [CA], et al

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

WO 2005075226 A1 20050818; CA 2551572 A1 20050818; CA 2551572 C 20120424; CN 100484791 C 20090506; CN 1906048 A 20070131; EP 1711360 A1 20061018; EP 1711360 A4 20100505; JP 2007520389 A 20070726

DOCDB simple family (application)

CA 2005000152 W 20050207; CA 2551572 A 20050207; CN 200580001636 A 20050207; EP 05706468 A 20050207; JP 2006551697 A 20050207