

Title (en)

METHOD FOR OPENING AND CLOSING A PART WHICH CAN BE ROTATED OR TILTED ON A VEHICLE

Title (de)

VERFAHREN ZUM ÖFFNEN UND SCHLIESSEN EINES AM FAHRZEUG DREHBAR ODER KIPPLAR GELAGERTEN TEILS

Title (fr)

PROCEDE DESTINE A L'OUVERTURE ET A LA FERMETURE D'UNE PIECE POUVANT PIVOTER OU SE RABATTRE CONTRE LE VEHICULE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO03004816A1] The invention relates to a method and a device for opening and closing a part (10) which can be rotated or tilted on a vehicle, especially a door (60) of a hinged window, a boot lid, an engine bonnet (12) or a folding roof. According to the invention, the part (10) is displaced between a closed position and an open position, and when the part (10) is open and/or closed, obstructions (30) are detected and the displacement of the part (10) is stopped or reversed by means of a control unit (28).

IPC 8 full level

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CPC (source: EP US)

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Citation (opposition)

Opponent : Brose Fahrzeugteile GmbH & Co.

- DE 4119579 A1 19921217 - BAYERISCHE MOTOREN WERKE AG [DE]
- DE 4416803 A1 19941117 - BROSE FAHRZEUGTEILE [DE]
- DE 19813025 A1 19990930 - WAGON AUTOMOTIVE GMBH [DE]
- DE 19836310 A1 20000302 - BRUELL JOCHEN [DE], et al
- DE 19853344 A1 20000525 - VOLKSWAGEN AG [DE]
- DE 19959990 A1 20000608 - AUDI AG [DE]
- DE 19934629 C2 20020124 - HUF HUELSBECK & FUERST GMBH [DE]
- DE 19623420 A1 19971218 - BOSCH GMBH ROBERT [DE]
- WO 0036725 A1 20000622 - TALLTEC TECHNOLOGIES HOLDINGS [LU]
- DE 4004353 A1 19910814 - BROSE FAHRZEUGTEILE [DE]
- EP 0736948 A1 19961009 - FORD MOTOR CO [US]
- DE 19649698 A1 19971030 - MULTIMATIC INC [CA], et al
- DE 19856974 C1 20000907 - BOSCH GMBH ROBERT [DE]
- DE 19939651 A1 20010628 - BROSE FAHRZEUGTEILE [DE]
- WO 0017982 A1 20000330 - BROSE FAHRZEUGTEILE [DE], et al
- DE 19915753 A1 20001012 - CONTINENTAL TEVES AG & CO OHG [DE]
- DE 29811689 U1 19991111 - BRUELL JOCHEN [DE], et al
- DE 19533804 A1 19960328 - VOLKSWAGEN AG [DE]
- "OMEGA - Bedienung, Sicherheit, Wartung", ZUSATZANLEITUNG ZUR BETRIEBSANLEITUNG OMEGA, August 1988 (1988-08-01), pages 51 - 52, XP055357242

Cited by

DE102019123871A1; DE102019123876A1; US10443292B2; WO2021043811A1; US11400890B2; US11591841B2

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