

Title (en)

Switch, especially electrical switch for power operated window or sliding roof for vehicles, switching device and method

Title (de)

Schalter, insbesondere elektrischer Fensterhebe- oder Schiebedachschalter für Fahrzeuge, Schaltsystem und Verfahren hierzu

Title (fr)

Commutateur, notamment commutateur électrique de lève-vitre ou de toit coulissant pour véhicules, dispositif de commutation et procédé

Publication

EP 1239502 B1 20110921 (DE)

Application

EP 01129286 A 20011213

Priority

DE 10110648 A 20010306

Abstract (en)

[origin: EP1239502A2] The device has at least one actuating element with at least two actuating positions, a switching mechanism, contact points closable by the switching mechanism and electronics detecting the closure or the state of the contact points. The switch mechanism closes the switch contacts in a defined sequence depending on the actuation position of the actuating element and the electronics detects the sequence. Independent claims are also included for the following: a switch system and a method of operating a switch.

IPC 8 full level

H01H 23/00 (2006.01); **H01H 21/24** (2006.01)

CPC (source: EP)

H01H 21/24 (2013.01); **H01H 23/003** (2013.01); **H01H 2021/225** (2013.01); **H01H 2300/006** (2013.01); **H01H 2300/01** (2013.01); **H01H 2300/054** (2013.01)

Citation (examination)

- DE 4326226 A1 19940210 - ALPS ELECTRIC CO LTD [JP]
- DE 19714651 A1 19981015 - ABB PATENT GMBH [DE]
- EP 0663677 A2 19950719 - EATON CORP [US]

Cited by

FR2893757A1; WO2007060330A1; US10559440B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1239502 A2 20020911; **EP 1239502 A3 20040414**; **EP 1239502 B1 20110921**; DE 10110648 A1 20020919

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