

Title (en)

Contact device for a functional electrical element fitted on glass

Title (de)

Kontaktvorrichtung für ein auf Glas angeordnetes elektrisches Funktionselement

Title (fr)

Dispositif de contact pour un élément fonctionnel électrique disposé sur une vitre

Publication

**EP 1009060 A3 20030709 (FR)**

Application

**EP 99402988 A 19991201**

Priority

DE 19856663 A 19981209

Abstract (en)

[origin: EP1009060A2] The contact device has a box fixed to the window, with electrical connections on the exterior of box. The box contains electrical elements such as an amplifier, with an input connection between the entry to the box and the electrical element, fixed on the window. There is also an output connection. Contact regions on the element are arranged to face corresponding connection areas of the box. These are stuck in position, and make contact via cut-out regions in the contact areas. Contact entry may be via connecting wires.

IPC 1-7

**H01Q 1/12**; **H01R 13/20**; **H01R 4/02**; **H01R 4/04**; **H01R 13/405**

IPC 8 full level

**B60J 1/00** (2006.01); **H01Q 1/12** (2006.01); **H01R 4/00** (2006.01); **H01R 4/02** (2006.01); **H01R 12/04** (2006.01); **H01R 13/20** (2006.01)

CPC (source: EP KR US)

**H01Q 1/1271** (2013.01 - EP US); **H01R 4/00** (2013.01 - KR); **H01R 13/20** (2013.01 - EP US)

Citation (search report)

- [XY] CA 2197828 A1 19980818 - ASTROFLEX INC [CA]
- [Y] US 4658259 A 19870414 - BLAESE HERBERT R [US]
- [A] DE 7227083 U 19740606
- [YA] DE 1196330 B 19650708 - KINON GLAS SPIEGEL
- [E] US 6164984 A 20001226 - SCHREINER HELMUT [DE]

Cited by

KR100824222B1; CN103437678A; CZ302426B6; FR2915321A1; EP1983609A1; USRE41715E; US7123202B2; WO03009415A1; EP1256261B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 1009060 A2 20000614**; **EP 1009060 A3 20030709**; BR 9906162 A 20000829; DE 19856663 A1 20000629; DE 19856663 C2 20030403; JP 2000243468 A 20000908; KR 100632272 B1 20061011; KR 20010055145 A 20010704; PL 196141 B1 20071231; PL 337050 A1 20000619; US 6307515 B1 20011023

DOCDB simple family (application)

**EP 99402988 A 19991201**; BR 9906162 A 19991208; DE 19856663 A 19981209; JP 35016499 A 19991209; KR 19990056239 A 19991209; PL 33705099 A 19991208; US 45732999 A 19991209