

Title (en)

ELECTRICAL DEVICE COMPRISING A CONTROLLED PIEZOELECTRIC ACTUATOR

Title (de)

ELEKTRISCHE EINRICHTUNG MIT EINEM GESTEUERTEN PIEZOELEKTRISCHEN BETÄTIGUNGSGLIED

Title (fr)

APPAREIL ELECTRIQUE A ACTIONNEUR PIEZOELECTRIQUE PILOTE

Publication

**EP 1485931 A1 20041215 (FR)**

Application

**EP 03735776 A 20030310**

Priority

- FR 0300759 W 20030310
- FR 0203522 A 20020319

Abstract (en)

[origin: WO03079387A1] The invention relates to an electrical switch device in which each power pole comprises a mobile bridge (30) which is equipped with at least one mobile contact (31a, 31b) which co-operates with at least one fixed contact (41a, 41b) of the pole between open and closed positions. The inventive switch device comprises at least one bistable or Voice Coil-type approach actuator (20) which acts on the mobile bridge(s) (30) such as to enable the mobile contact(s) (31a, 31b) of the mobile bridge (30) and the fixed contacts(s) (41a, 41b) to move together or apart. Moreover, each pole comprises a piezoelectric stress actuator (42) which can be used to establish the contact pressure or contact disconnect without the need for a mechanical return element.

IPC 1-7

**H01H 57/00**

IPC 8 full level

**H01H 57/00** (2006.01); **H01H 9/56** (2006.01); **H01H 51/22** (2006.01)

CPC (source: EP US)

**H01H 57/00** (2013.01 - EP US); **H01H 9/563** (2013.01 - EP US); **H01H 51/2209** (2013.01 - EP US)

Citation (search report)

See references of WO 03079387A1

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 03079387 A1 20030925**; AU 2003236855 A1 20030929; CN 1295727 C 20070117; CN 1639818 A 20050713; EP 1485931 A1 20041215; EP 1485931 B1 20130515; ES 2414457 T3 20130719; FR 2837616 A1 20030926; FR 2837616 B1 20040528; US 2005104699 A1 20050519; US 7049912 B2 20060523

DOCDB simple family (application)

**FR 0300759 W 20030310**; AU 2003236855 A 20030310; CN 03805633 A 20030310; EP 03735776 A 20030310; ES 03735776 T 20030310; FR 0203522 A 20020319; US 50134104 A 20040726