

Title (en)
LOW POWER CONSUMPTION BISTABLE MICROSWITCH

Title (de)
BISTABILER MIKROSCHALTER MIT GERINGER STROMAUFNahme

Title (fr)
MICRO-COMMUTATEUR BISTABLE A FAIBLE CONSOMMATION

Publication
EP 1639613 A1 20060329 (FR)

Application
EP 04767860 A 20040630

Priority
• FR 2004050298 W 20040630
• FR 0350278 A 20030701

Abstract (en)
[origin: US2006152328A1] A bistable MEMS microswitch produced on a substrate and capable of electrically connecting ends of at least two conductive tracks, including a beam suspended above the surface of the substrate. The beam is embedded at its two ends and is subjected to compressive stress when it is in the non-deformed position. The beam has an electrical contact configured to produce a lateral connection with the ends of the two conductive tracks when the beam is deformed in a horizontal direction with respect to the surface of the substrate. Actuators enable the beam to be placed in a first deformed position, corresponding to a first stable state, or in a second deformed position, corresponding to a second stable state, and the electrical contact ensures connection of the ends of the two conductive tracks.

IPC 1-7
H01H 1/00

IPC 8 full level
H01H 1/00 (2006.01); **H01H 59/00** (2006.01)

CPC (source: EP US)
H01H 1/0036 (2013.01 - EP US); **H01H 59/0009** (2013.01 - EP US); **H01H 2001/0042** (2013.01 - EP US); **H01H 2061/006** (2013.01 - EP US)

Citation (search report)
See references of WO 2005006364A1

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2006152328 A1 20060713; US 7489228 B2 20090210; AT E369612 T1 20070815; DE 602004008075 D1 20070920;
DE 602004008075 T2 20080515; EP 1639613 A1 20060329; EP 1639613 B1 20070808; FR 2857153 A1 20050107; FR 2857153 B1 20050826;
JP 2007516560 A 20070621; JP 4464397 B2 20100519; WO 2005006364 A1 20050120

DOCDB simple family (application)
US 56194805 A 20051222; AT 04767860 T 20040630; DE 602004008075 T 20040630; EP 04767860 A 20040630; FR 0350278 A 20030701;
FR 2004050298 W 20040630; JP 2006516357 A 20040630