

Title (en)

BISTABLE MICROMECHANICAL SWITCH, ACTUATING METHOD AND CORRESPONDING METHOD FOR REALIZING THE SAME

Title (de)

BISTABILER MIKROMECHANISCHER SCHALTER, BETÄTIGUNGSVERFAHREN UND ENTSPRECHENDES VERFAHREN ZU SEINER REALISIERUNG

Title (fr)

COMMUTATEUR MICRO-MECANIQUE BISTABLE, METHODE D' ACTIONNEMENT ET PROCEDE DE REALISATION CORRESPONDANT

Publication

EP 1652205 B1 20070829 (FR)

Application

EP 04767777 A 20040726

Priority

- FR 2004001988 W 20040726
- FR 0309534 A 20030801

Abstract (en)

[origin: US2006192641A1] A deformable suspension bridge is attached to a substrate by two legs arranged in such a manner as to transversally subdivide the bridge into a medial segment arranged between the legs and into two outwardly projecting peripheral segments. Peripheral actuators and medial actuators enable the peripheral segments and the medial segment to be respectively and independently deformed perpendicularly to the substrate. As a result, an electrical contact between a first conductive element formed on the substrate, while being situated between the bridge and substrate, and a second conductive element, which is integrally secured to the underside of the bridge, can be made or broken, the switch whereby taking two mechanically stable positions.

IPC 8 full level

H01H 59/00 (2006.01); **H01H 1/00** (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)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2006192641 A1 20060831; **US 7342472 B2 20080311**; AT E371948 T1 20070915; DE 602004008648 D1 20071011; DE 602004008648 T2 20080626; EP 1652205 A2 20060503; EP 1652205 B1 20070829; FR 2858459 A1 20050204; FR 2858459 B1 20060310; JP 2007501494 A 20070125; JP 4481309 B2 20100616; WO 2005015594 A2 20050217; WO 2005015594 A3 20050609

DOCDB simple family (application)

US 56480104 A 20040726; AT 04767777 T 20040726; DE 602004008648 T 20040726; EP 04767777 A 20040726; FR 0309534 A 20030801; FR 2004001988 W 20040726; JP 2006522366 A 20040726