

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)

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