

Title (en)  
MICROELECTROMECHANICAL DEVICE WITH MOVING ELEMENT

Title (de)  
MIKROELEKTROMECHANISCHE VORRICHTUNG MIT BEWEGLICHEM ELEMENT

Title (fr)  
DISPOSITIF MICRO-ELECTROMECHANIQUE A ELEMENT MOBILE

Publication  
**EP 1218790 A2 20020703 (EN)**

Application  
**EP 00946255 A 20000720**

Priority  
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• US 17049299 P 19991213  
• US 17049499 P 19991213

Abstract (en)  
[origin: WO0106543A2] A microelectromechanical (MEMS) device has a substrate, and a generally planar moving element, such as a mirror, disposed in parallel to the surface of the substrate. An actuator is operatively engageable with the moving element for selectively actuating the moving element between a first position in a plane horizontal to the surface of the substrate and a second position in that plane. The MEMS device may be effectively used as an optical switch. Various different actuators can be used. Preferably, the device is fabricated using a surface micromachining process.  
[origin: WO0106543A2] A microelectromechanical (MEMS) device (100) has a substrate (102) and a generally planar moving element (106), such as a mirror, disposed in parallel to the surface (108) of the substrate. An actuator is operatively engageable with the moving element (106) for selectively actuating the moving element (106) between a first position in a plane horizontal to the surface of the substrate and a second position in that plane. The MEMS device (100) may be effectively used as an optical switch. Various different actuators can be used. Preferably, the device is fabricated using a surface micromachining process.

IPC 1-7  
**G02B 26/02**

IPC 8 full level  
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