

Title (en)

A micro relay device having a membrane with slits

Title (de)

Mikrorelaisvorrichtung mit geschlitzter Membrane

Title (fr)

Dispositif de micro-relais avec une membrane fendue

Publication

EP 1321957 A1 20030625 (EN)

Application

EP 01811245 A 20011219

Priority

EP 01811245 A 20011219

Abstract (en)

The invention relates to an improved design for micro relays comprising a membrane 1 with slits 2 defining suspension beams 3 and actuation portions 4. Large areas of actuation portions 4 can be combined with small elastic constants of suspension beams 3 in order to improve the contact forces. <IMAGE>

IPC 1-7

H01H 59/00

IPC 8 full level

H01H 59/00 (2006.01); **H01H 1/18** (2006.01)

CPC (source: EP)

H01H 59/0009 (2013.01); **H01H 1/18** (2013.01); **H01H 2001/0084** (2013.01)

Citation (search report)

- [X] EP 1024512 A1 20000802 - OMRON TATEISI ELECTRONICS CO [JP]
- [A] US 5673785 A 19971007 - SCHLAACK HELMUT [DE], et al
- [A] US 6115231 A 20000905 - SHIRAKAWA YUKIHIKO [JP]

Cited by

FR2876995A1; FR2868591A1; EP1672661A3; EP2568487A1; SE545958C2; SE2350283A1; US7782170B2; US7548144B2; WO2005101434A3; US7119943B2; US7709757B2; US9048052B2; WO2006023724A1; WO2006045914A1; WO2011069988A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1321957 A1 20030625

DOCDB simple family (application)

EP 01811245 A 20011219