

Title (en)

INTEGRATED MICRO-ELECTROMECHANICAL SWITCHES AND A RELATED METHOD THEREOF

Title (de)

INTEGRIERTE MIKROELEKTROMECHANISCHE SCHALTER UND EIN ZUGEHÖRIGES VERFAHREN DAFÜR

Title (fr)

MICRO-COMMUTATEURS ÉLECTROMÉCANIQUES INTÉGRÉS ET PROCÉDÉ ASSOCIÉ

Publication

EP 3161847 A4 20180131 (EN)

Application

EP 15810992 A 20150623

Priority

- US 201414314344 A 20140625
- US 2015037155 W 20150623

Abstract (en)

[origin: WO2015200307A2] A system includes a plurality of micro-electromechanical switches including a plurality of gates, coupled to each other. Each micro-electromechanical switch includes a beam electrode disposed on a substrate. A beam includes an anchor portion coupled to the beam electrode. The beam includes a first beam portion extending from the anchor portion along a first direction; and a second beam portion extending from the anchor portion along a second direction opposite to the first direction. A first control electrode and a first contact electrode are disposed on the substrate, facing the first beam portion. A second control electrode and a second contact electrode are disposed on the substrate, facing the second beam portion. The first control electrode and the second control electrode are coupled to form a gate among the plurality of gates. The plurality of micro-electromechanical switches is arranged in at least one of a series arrangement, parallel arrangement.

IPC 8 full level

H01H 59/00 (2006.01)

CPC (source: CN EP)

H01H 59/0009 (2013.01 - CN EP); **H01H 2001/0084** (2013.01 - CN EP); **H01H 2239/004** (2013.01 - EP)

Citation (search report)

- [XII] US 2013134018 A1 20130530 - AIMI MARCO FRANCESCO [US]
- [XII] US 2012249261 A1 20121004 - AIMI MARCO FRANCESCO [US], et al
- See references of WO 2015200307A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 2015200307 A2 20151230; WO 2015200307 A3 20160225; CA 2952661 A1 20151230; CA 2952661 C 20230117; CN 106415772 A 20170215; CN 106415772 B 20190813; EP 3161847 A2 20170503; EP 3161847 A4 20180131; EP 3161847 B1 20230531; JP 2017527949 A 20170921; JP 6781048 B2 20201104; SG 11201610176Y A 20170127

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