



(43) International Publication Date  
31 January 2013 (31.01.2013)

(51) International Patent Classification:  
*G01P 15/00* (2006.01)

(21) International Application Number:  
PCT/IB2012/053808

(22) International Filing Date:  
26 July 2012 (26.07.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
214294 26 July 2011 (26.07.2011) IL

(71) Applicant (for all designated States except US): **RAFAEL - ADVANCED DEFENSE SYSTEMS LTD.** [IL/IL]; P.O.Box 2250, Haifa, 31021 Haifa (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KOGUT, Lior** [IL/IL]; 16 Sayfan St., Haifa, 34791 Haifa (IL). **OHANA, Avihay** [IL/IL]; 14/3 Burla St., Haifa, 32811 Haifa (IL). **NEPOMNYASHCHY, Boris** [IL/IL]; 28 Ha-Irusion, Neshet, 36843 Haifa (IL). **PERNAT, Nir** [IL/IL]; 9 Inbar St., Zichron Yaakov, 30900 Zichron Yaakov (IL).

(74) Agents: **TSIVION, Yoram** et al.; Hatochen 2, Casarea, 3148 Casarea (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: SWITCHING DEVICE

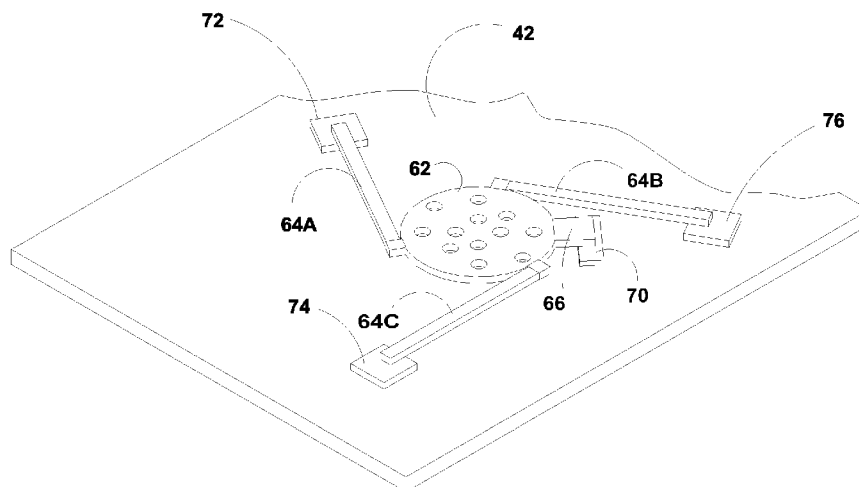


Fig. 2

(57) Abstract: An acceleration responsive switching device formed as a micro- electromechanical systems (MEMS) device in which components are deposited and etched on and or above a substrate, comprising: a proof mass module comprising: at least one proof mass made of metal; at least three resilient suspending members made of metal, for suspending the proof mass; a lingule made of metal, connected to the proof mass; at least two contact pads to which at least one of the three resilient suspending members is permanently attached thereby allowing current to flow from the at least two pads to the proof mass module; and at least one additional contact pad, which is set against the lingule.

