

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
3 July 2014 (03.07.2014)



(10) International Publication Number
WO 2014/102446 A8

(51) International Patent Classification:
H01H 33/60 (2006.01)

(21) International Application Number:
PCT/FI2012/051309

(22) International Filing Date:
28 December 2012 (28.12.2012)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant: **ABB OY** [FI/FI]; Strömbergintie 1, FI-00380 Helsinki (FI).

(72) Inventors: **TAKALA, Marko**; c/o ABB Oy, Muottitie 2 A, FI-65320 Vaasa (FI). **ELOMAA, Jari**; c/o ABB Oy, Muottitie 2 A, FI-65320 Vaasa (FI). **KÄHKIPURO, Matti**; c/o Engineering Office Matti Kähkipuro, Lampilantie 70, FI-05800 Hyvinkää (FI). **PUUMALA, Veikko**; c/o Tuotekehitys Oy Tamlink, Hermiankatu 6, FI-33720

Tampere (FI). **KETTUNEN, Lauri**; c/o Tuotekehitys Oy Tamlink, Hermiankatu 6, FI-33720 Tampere (FI). **FORSBERG, Tommi**; c/o Cadrang Oy, Juhana Herttuan Puistokatu 19, FI-20100 Turku (FI). **ARJANNE, Pertti**; c/o Microteam Oy, Hataanpääntäti 3 G, FI-33900 Tampere (FI). **HELMINEN, Mikko**; c/o Cadrang Oy, Juhana Herttuan Puistokatu 19, FI-20100 Turku (FI). **VEHKAPERÄ, Mikko**; c/o Microteam Oy, Hataanpääntäti 3 G, FI-33900 Tampere (FI).

(74) Agent: **KOLSTER OY AB**; (Iso Roobertinkatu 23), P.O.Box 148, FI-00121 Helsinki (FI).

(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,

[Continued on next page]

(54) Title: SWITCH ASSEMBLY

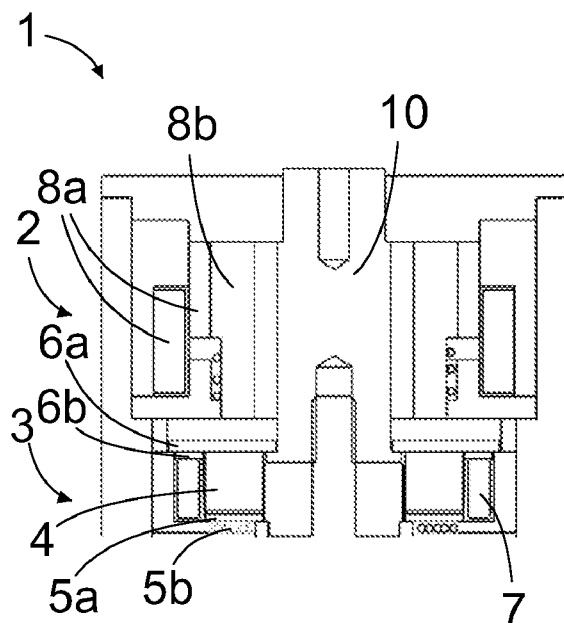


FIG. 1

(57) Abstract: A switch assembly (1) for switching electric circuits comprises a contributory switch (3), a main switch (2), and a flexible element (4). The contributory switch (3) and the main switch (2) are connected electrically in series, the contributory switch (3) and the main switch (2) each comprise at least one movable contact and the flexible element is connected to one movable contact of the contributory switch, a first contact (5a), and one movable contact of the main switch, a second contact (6a).



ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, 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).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *of inventorship (Rule 4.17(iv))*

Published:

- *with international search report (Art. 21(3))*

(48) Date of publication of this corrected version:

23 October 2014

(15) Information about Correction:

see Notice of 23 October 2014