

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 November 2007 (22.11.2007)

PCT

(10) International Publication Number
WO 2007/133469 A2

(51) International Patent Classification: Not classified

(21) International Application Number:
PCT/US2007/010745

(22) International Filing Date: 1 May 2007 (01.05.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/799,813 12 May 2006 (12.05.2006) US
11/542,076 2 October 2006 (02.10.2006) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

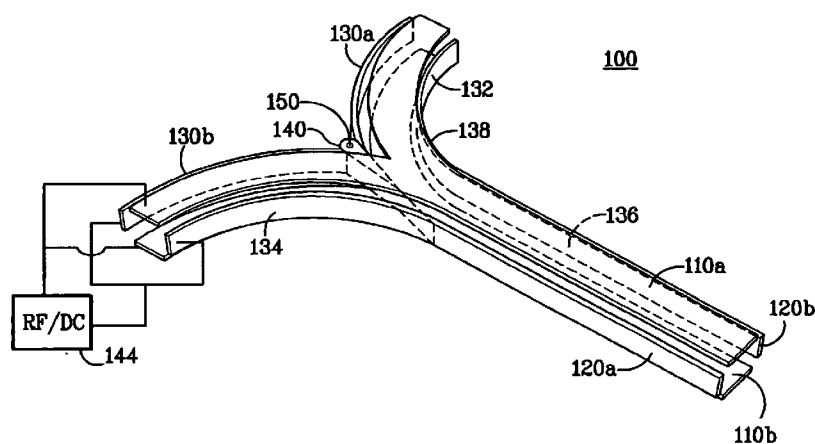
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SWITCHABLE BRANCHED ION GUIDE



(57) Abstract: A switchable branched ion guide is disclosed. The switchable branched ion guide includes a trunk section, first and second branch sections, a junction connecting the trunk section to the branch sections, and a movable valve member located at the junction. The valve member may be moved between a first position in which ion travel is permitted between the trunk section and first branch section and is inhibited between the trunk section and the second branch section, and a second position in which ion travel is permitted between the trunk section and the second branch section and is inhibited between the trunk section and the first branch section. The branched ion guide may be utilized, for example, to controllably switch an ion stream between two destinations such as mass analyzers.