

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
16 December 2021 (16.12.2021)



(10) International Publication Number
WO 2021/248178 A1

- (51) International Patent Classification:
H01J 43/04 (2006.01) *H01J 49/26* (2006.01)
- (21) International Application Number:
PCT/AU2021/050567
- (22) International Filing Date:
07 June 2021 (07.06.2021)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2020901880 09 June 2020 (09.06.2020) AU
2020902555 23 July 2020 (23.07.2020) AU
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- (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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, 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, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH,

(54) Title: IMPROVED ION CONVERSION PLATE

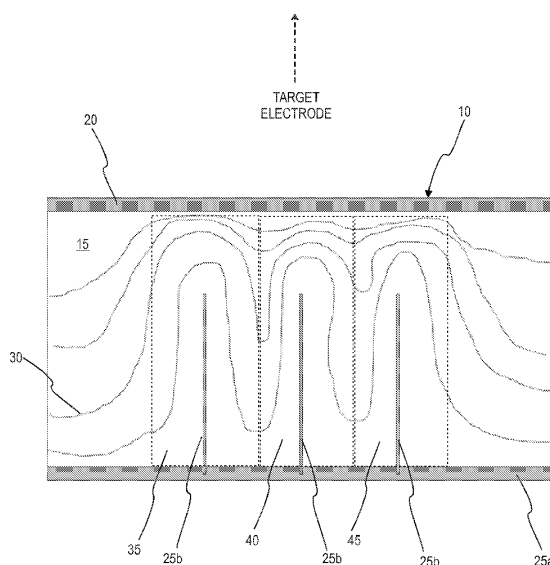


FIG. 1

(57) Abstract: The present invention relates to generally to components of scientific analytical equipment. More particularly, the invention relates to apparatus and methods for detecting and quantitating particles, and particularly ions generated in the course of mass spectroscopy. In one version, the invention provides a particle detection apparatus having electron emissive surfaces which emit secondary electrons in response to impact with a particle, the apparatus maintaining spatial separation between (i) secondary electrons emitted as a result of the impact of a first particle in a first region of the electron emissive surface and (ii) secondary electrons emitted as a result of the impact of a second particle in a second region of the electron emissive surface.

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GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))