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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 June 2012 (14.06.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/078291 A1

(51) International Patent Classification:
G01N 21/03 (2006.01)

(21) International Application Number:
PCT/US2011/059849

(22) International Filing Date:
9 November 2011 (09.11.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/412,151 10 November 2010 (10.11.2010) US

(71) Applicant *(for all designated States except US)*: **GLAXO GROUP LIMITED** [GB/GB]; c/o GlaxoSmithKline, Global Patents Department, Glaxo Wellcome House, Berkeley Avenue, Greenford Middlesex UB6 0NN (GB).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CROWDER, Timothy M.** [US/US]; c/o GlaxoSmithKline, Global Patents Department, Five Moore Drive, P.O. Box 13398, Research Triangle Park, NC 27709 (US). **DICKENS, Jason E.** [US/US]; c/o GlaxoSmithKline, Global Patents Department, Five Moore Drive, P.O. Box 13398, Research Triangle Park, NC 27709 (US). **ELY, Kevin J.** [GB/GB]; c/o GlaxoSmithKline, Global Patents Department, Five Moore Drive, P.O. Box 13398, Research Triangle Park, NC 27709 (GB). **WALKER, Dwigth Sherod** [US/US]; c/o GlaxoSmithKline, Global Patents Department, Five Moore Drive, P.O. Box 13398, Research Triangle Park, NC 27709 (US).

(74) Agents: **WALKER, Dwigth Sherod** et al.; c/o GlaxoSmithKline, Global Patents Department, Five Moore Drive, P.O. Box 13398, Research Triangle Park, NC 27709 (US).

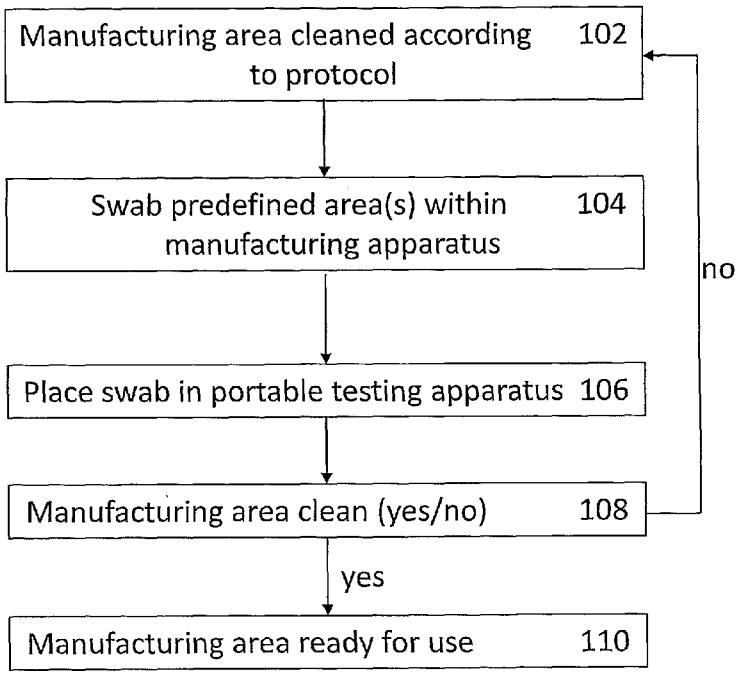
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, 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, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,

[Continued on next page]

(54) Title: METHOD OF DETERMINING CLEANLINESS

FIG. 1



(57) Abstract: A method of determining cleanliness of a manufacturing area is disclosed. The method of determining cleanliness of a manufacturing area comprising swabbing at least one target area within the manufacturing area, placing the swab in a testing apparatus, analyzing for the presence of the at least one substance with the testing apparatus and determining in real time the cleanliness of the manufacturing area.

WO 2012/078291 A1

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))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

— *of inventorship (Rule 4.17(iv))*

Published:

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