



(51) International Patent Classification:
G01N 1/24 (2006.01)

(21) International Application Number:
PCT/US2011/020814

(22) International Filing Date:
11 January 2011 (11.01.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/685,770 12 January 2010 (12.01.2010) US

(71) Applicant (for all designated States except US): **VEL-TEK ASSOCIATES, INC.** [US/US]; 15 Lee Boulevard, Malvern, Pennsylvania 19460 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **VELLUTATO JR., Arthur L.** [US/US]; 122 Woodmint Drive, West Chester, Pennsylvania 19380 (US).

(74) Agent: **WEISSMAN, Peter S.**; Blank Rome LLP, 600 New Hampshire Avenue, NW, Washington, District of Columbia 20037 (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, RO, RS, RU, 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, 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, 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,

[Continued on next page]

(54) Title: MICROBIAL AIR SAMPLER

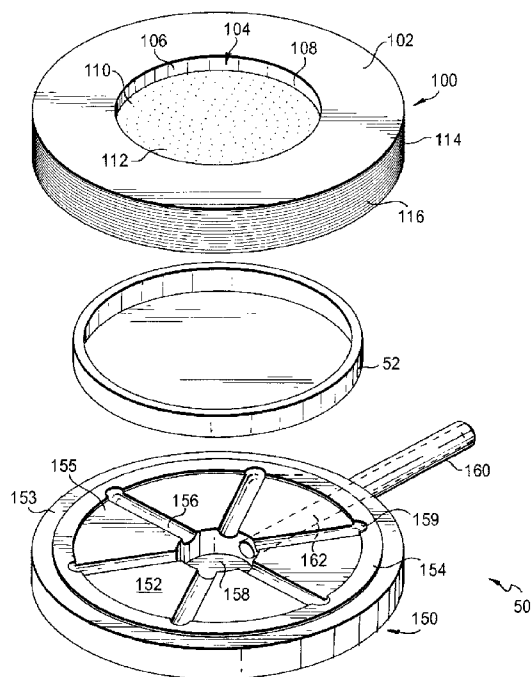


FIG. 3

(57) Abstract: An air sampler device has a top plate and a bottom plate, and receives a Petri dish between the top plate and the bottom plate. The top plate includes 283 substantially small holes. The bottom plate has a deepened center well formed in the top surface. Elongated slots are formed in the top surface which extend out from the well. The slots have distal ends which extend beyond the Petri dish. Air is drawn into the sampler by a vacuum tube through an air port which communicates with the center well. Air is pulled into the 283 holes in the top plate and strikes the capture material in the Petri dish. The air then travels up over the sides of the dish, into the distal ends, through the slots, and into the center well, where it exits out of the vacuum air port.

WO 2011/088033 A1



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, **Published:**
GW, ML, MR, NE, SN, TD, TG).

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