



(51) International Patent Classification:
A61M 11/00 (2006.01)

(21) International Application Number:
PCT/US2010/026614

(22) International Filing Date:
9 March 2010 (09.03.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/160,904 17 March 2009 (17.03.2009) US

(71) Applicant (for all designated States except US): **DUKE UNIVERSITY** [US/US]; Dunc 3664, Durham, NC 27710 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ROSE, Seth, D.** [US/US]; 613 E. Balboa Dr., Tempe, AZ 85282 (US). **TURNER, James, Edward** [US/US]; Dunc 3664, Durham, NC 27710 (US). **MURUGESAN, Thangaraju** [IN/US]; Dunc 3664, Durham, NC 27710 (US). **ROSE, Jed, E.** [US/US]; Dunc 3664, Durham, NC 27710 (US).

(74) Agents: **WHITE, Allen, E.** et al.; Fulbright & Jaworski L.L.P., Fulbright Tower, 1301 McKinney, Suite 5100, Houston, TX 77010-3095 (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, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, 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:

— of inventorship (Rule 4.17(iv))

Published:

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

(54) Title: TOBACCO-BASED NICOTINE AEROSOL GENERATION SYSTEM

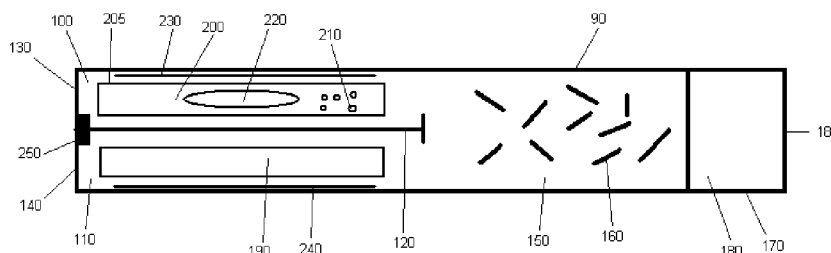


FIGURE 1

(57) Abstract: The invention relates to devices and methods for delivering nicotine and/or other alkaloids from tobacco, other plants and other natural sources. More particularly, the invention relates to devices and methods for delivering an aerosol of nicotine to a user's lungs without combustion of the nicotine source materials.