

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 April 2011 (14.04.2011)

(10) International Publication Number
WO 2011/042166 A1

(51) International Patent Classification:

A24B 15/26 (2006.01) A24B 13/00 (2006.01)
A24B 15/28 (2006.01)

(21) International Application Number:

PCT/EP2010/006099

(22) International Filing Date:

6 October 2010 (06.10.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/576,973 9 October 2009 (09.10.2009) US

(71) Applicant (for all designated States except US): **PHILIP MORRIS PRODUCTS S.A.** [CH/CH]; Quai Jeanrenaud 3, CH-2000 Neuchâtel (CH).

(72) Inventor: **KRAUSS, Marc, Robert**; 13814 Beechwood Point Circle Midlothian, VA, 23112 (US).

(74) Agent: **MILLBURN, Julie, Elizabeth**; Reddie & Grose, 16 Theobalds Road, London WC1X 8PL (GB).

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

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: COMBINATION TREATMENT OF TOBACCO EXTRACT USING ANTIOXIDANTS AND ANTIOXIDANT SCAVENGERS

(57) Abstract: A process for treating a tobacco material comprising: (a) extracting a tobacco material with a solvent to produce a tobacco extract and a tobacco residue; (b) contacting the tobacco extract with an antioxidant; and (c) contacting the mixture of (b) with an antioxidant scavenger, to produce a treated tobacco extract. The treated tobacco extract is reapplied to the tobacco residue to form a treated tobacco material. In addition, a smoking composition, a smoking article and a smokeless tobacco oral delivery product contain the treated tobacco material.



WO 2011/042166 A1