



(51) International Patent Classification:
B29C 47/02 (2006.01) **B05C 3/00** (2006.01)

(21) International Application Number:
PCT/IB2008/003691

(22) International Filing Date:
15 December 2008 (15.12.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
07254857.1 13 December 2007 (13.12.2007) EP

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

(72) Inventors: **CLEMENS, Dr. Frank, Jorg**; EMPA Dübendorf, Laboratory for High performance Ceramics, Ueberlandstrasse 129, CH-8600 Dübendorf (CH). **RAETHER, Friedrich**; Am Sonnenhang 13, 97204 Hoechberg (DE). **BABER, Jens**; Sedanstr. 5, 97082 Würzburg (DE). **FRIEDRICH, Holger**; Am Sonnenhang 3, 95482 Grunstein (DE).

(74) Agent: **TAYLOR, Gillian, Claire**; 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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, MT, NL, NO, PL, PT, RO, SE, SI, SK, 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))

(88) Date of publication of the international search report:
21 January 2010

(54) Title: PROCESS FOR THE PRODUCTION OF A CYLINDRICAL HEAT SOURCE

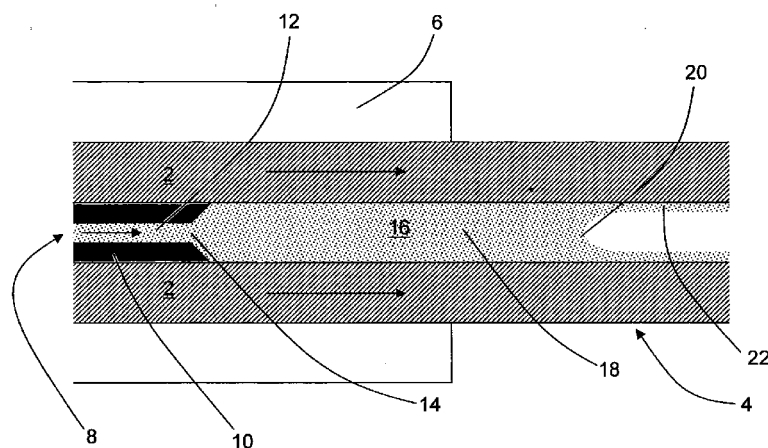


Figure 1

(57) Abstract: A process for the production of a cylindrical, carbonaceous heat source (4) for a heated smoking article, the heat source having a longitudinal air flow channel extending therethrough, the inner surface of which is covered with a coating layer (22) comprises the steps of: (a) forming the cylindrical heat source (4) by extrusion of a carbonaceous material through a die (6) comprising an orifice (8) with a mandrel (10) mounted therein to form the air flow channel; and (b) applying a fluid coating compound (16) to the inner surface of the air flow channel downstream of the mandrel. The coating compound (16) is fed through a feed passageway (12) extending longitudinally through the mandrel (10) and having an outlet in the end thereof. The coating compound (16) wets the inner surface of the longitudinal channel as a result of forces of adhesion between the coating compound and the inner surface, thereby forming the coating layer (22) as the cylindrical article (4) is extruded.

