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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 June 2012 (21.06.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/082450 A3

(51) **International Patent Classification**:
A61K 8/73 (2006.01) *A61K 8/34* (2006.01)
A61K 8/92 (2006.01) *A61Q 11/00* (2006.01)
A61K 8/81 (2006.01)

(21) **International Application Number**:
PCT/US2011/063367

(22) **International Filing Date**:
6 December 2011 (06.12.2011)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
61/422,493 13 December 2010 (13.12.2010) US

(71) **Applicant** *(for all designated States except US)*: **COLGATE-PALMOLIVE COMPANY** [US/US]; 300 Park Avenue, New York, New York 10022 (US).

(72) **Inventors; and**
(75) **Inventors/Applicants** *(for US only)*: **GU, Ben** [US/US]; 9 Lorraine Court, East Brunswick, New Jersey 08816 (US). **HASSAN, Mahmoud** [US/US]; 34 Castleton Avenue, Somerset, New Jersey 08873 (US).

(74) **Agent**: **HEBLE, Nikhil A.**; COLGATE-PALMOLIVE COMPANY, Patent Department, 909 River Road, Piscataway, New Jersey 08855 (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, 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))*

(88) **Date of publication of the international search report**:
4 July 2013

WO 2012/082450 A3

(54) **Title**: ORAL COMPOSITIONS

(57) **Abstract**: Described herein, are films, compositions containing the films and methods of preparing a dentifrice comprising the films, wherein the films contain a low solubility flavorant.