

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 December 2011 (29.12.2011)

PCT

(10) International Publication Number
WO 2011/162755 A1

(51) International Patent Classification:

A61K 8/11 (2006.01) *A61K 8/49* (2006.01)
A61K 8/21 (2006.01) *A61K 8/60* (2006.01)
A61K 8/365 (2006.01) *A61K 8/73* (2006.01)
A61K 8/44 (2006.01) *A61Q 11/00* (2006.01)

(21) International Application Number:

PCT/US2010/039673

(22) International Filing Date:

23 June 2010 (23.06.2010)

(25) Filing Language:

English

(26) Publication Language:

English

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

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **FRUGE, Linh** [US/US]; 230 Bywater Court, Hillsborough, NJ 08844 (US). **HEPLER, Barbara** [US/US]; 38 Koehler Drive, South Bound Brook, NJ 08880 (US). **COLLINS, Michael** [US/US]; 6 Galway Drive, Hazlet, NJ 07730 (US). **BOYD, Thomas** [US/US]; 226 High Street, Metuchen, NJ 08840 (US).

(74) Agent: **TRAUT, Donald, L.**; Colgate-palmolive Company, Patent Department, 909 River Road, Piscataway, NJ 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, 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, 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))

(54) Title: ENCAPSULATION OF INGREDIENTS IN LACTOSE MATRIX TO FORM ACTIVE ENCAPSULATES

(57) Abstract: An oral care composition and method are described in which the composition includes lactose matrix encapsulates entrained in a carrier. The encapsulates may further comprise oral care and/or personal care ingredients.



WO 2011/162755 A1