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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 October 2008 (09.10.2008)

PCT

(10) International Publication Number
WO 2008/121518 A1

(51) International Patent Classification:
A61K 8/11 (2006.01) *A61K 8/73* (2006.01)
A61K 8/49 (2006.01) *A61Q 11/00* (2006.01)

(21) International Application Number:
PCT/US2008/056654

(22) International Filing Date: 12 March 2008 (12.03.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/694,032 30 March 2007 (30.03.2007) US

(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)*: **MASTERS, James, G.** [US/US]; 1 Stephen Court, Ringoes, NJ 08551 (US). **PILCH, Shira** [US/US]; 909 South Park Avenue, Highland Park, NJ 08904 (US).

(74) Agent: **PARK, Ellen, K.**; Colgate-palmolive Company, 909 River Road, Po Box 1343, Piscataway, NJ 08854 (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, 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, 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*

WO 2008/121518 A1

(54) **Title:** POLYMERIC ENCAPSULATES HAVING A QUATERNARY AMMONIUM SALT AND METHODS FOR PRODUCING THE SAME

(57) **Abstract:** A quaternary ammonium salt encapsulated by a polymeric microcapsule an methods for manufacturing such microcapsules are described. The quaternary ammonium salt can be cetylpyridinium chloride. The polymeric microcapsule encapsulating the quaternary ammonium salt can be used as an ingredient in a dentifrice.