



(51) International Patent Classification:

A61Q 11/02 (2006.01) *A61K 8/73* (2006.01)
A61K 8/21 (2006.01) *A61K 8/04* (2006.01)
A61K 8/34 (2006.01) *A46B 11/00* (2006.01)
A61K 8/49 (2006.01) *A61P 1/02* (2006.01)

(21) International Application Number:

PCT/US2011/060678

(22) International Filing Date:

15 November 2011 (15.11.2011)

(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, New York 10022 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHEN, Elva** [CN/US]; 1 Richmond Street, Apt. 4022, New Brunswick, New Jersey 08901 (US). **KENNEDY, Sharon** [US/US]; 4213 Holbrook Road, Randallstown, Maryland 21133 (US). **MIRAJKAR, Yelloji-Rao** [US/US]; 161 Hancock Road, Piscataway, New Jersey 08855 (US). **JOGUN, Suzanne** [US/US]; 258 Beech Terrace, Wayne, New Jersey 07470 (US). **PRENCIPE, Michael** [US/US]; 39 Spruce Street, Princeton Junction, New Jersey 08550 (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))

(54) Title: ORAL CARE GEL DISPENSER SYSTEMS

(57) Abstract: The invention provides an oral care system comprising a gel in a pen dispenser, the dispenser comprising a chamber which permits dispensing of a measured amount of the gel, wherein the gel exhibits a Herschel-Bulkley yield stress of 10 to 230 dynes/cm², a Herschel-Bulkley viscosity of 3 to 500 poise, and a Herschel-Bulkley rate index of 0.4 to 0.6, the specific viscosity permitting efficient application of the gel, as well as methods of using the same.

