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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 October 2010 (07.10.2010)

PCT

(10) International Publication Number
WO 2010/115037 A2

(51) International Patent Classification:
*A61K 8/25* (2006.01)

(21) International Application Number:
PCT/US2010/029682

(22) International Filing Date:
1 April 2010 (01.04.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/165,795 1 April 2009 (01.04.2009) 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)*: **MANDADI, Prakasarao** [US/US]; 4 Kentview Court, Flemington, New Jersey 08822 (US). **CHOPRA, Suman K.** [US/US]; 6 Trotter Court, Monroe, New Jersey 08831 (US). **ZAIDEL, Lynette** [US/US]; 510 Cranford Avenue, Cranford, New Jersey 07016 (US). **PRENCIPE, Michael** [US/US]; 39 Spruce Street, Princeton Junction, New Jersey 08550 (US).

(74) Agent: **TRAUT, Donald L.**; 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, 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 (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**:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

(54) Title: NON-AQUEOUS DENTIFRICE COMPOSITION WITH BIOACCEPTABLE AND BIOACTIVE GLASS AND METHODS OF USE AND MANUFACTURE THEREOF

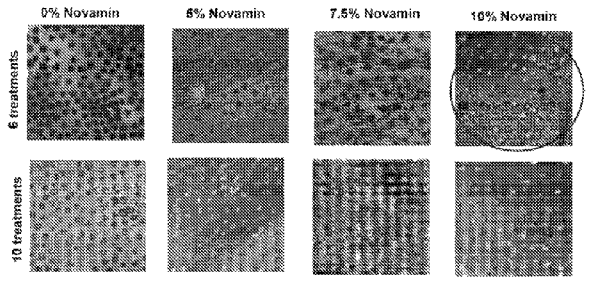



Figure 1

(57) Abstract: The invention encompasses non-aqueous dentifrice compositions containing a bioacceptable and bioactive glass with improved mouth-feel, foam, and product stability. More particularly, the invention encompasses non-aqueous compositions including combinations including carrageenan and/or carboxymethlycellulose gums, glycerin, ethylene oxide/propylene oxide copolymers, and a bioactive glass and methods of use the compositions in an oral care product, for example, a whitening toothpaste, for hypersensitive teeth.

WO 2010/115037 A2