



(51) International Patent Classification:

A61K 31/522 (2006.01) *A61K 31/66* (2006.01)
A61K 31/52 (2006.01) *A61K 33/06* (2006.01)
A61K 31/437 (2006.01) *A61P 1/02* (2006.01)

(21) International Application Number:

PCT/US2011/024734

(22) International Filing Date:

14 February 2011 (14.02.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/303,774 12 February 2010 (12.02.2010) US

(71) Applicant (*for all designated States except US*): **THEO-CORP HOLDING CO., LLC** [—/US]; 3512 8th Street, Metairie, Louisiana 70002 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SADEGHPOUR, Arman** [US/US]; 3512 8th Street, Metairie, Louisiana 70002 (US). **NAKAMOTO, Tetsuo** [JP/US]; 4228 Beaune Dr., Kenner, Louisiana 70065 (US).

(74) Agent: **MOORE, Chester**; 3 Sanctuary Boulevard, Suite 201, Mandeville, Louisiana 70471 (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,

[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS TO IMPROVE MECHANICAL RESISTANCE OF TEETH

(57) Abstract: Provided are compositions and methods for preventing dental caries, as well as aqueous compositions and methods for improving the mechanical strength of teeth.

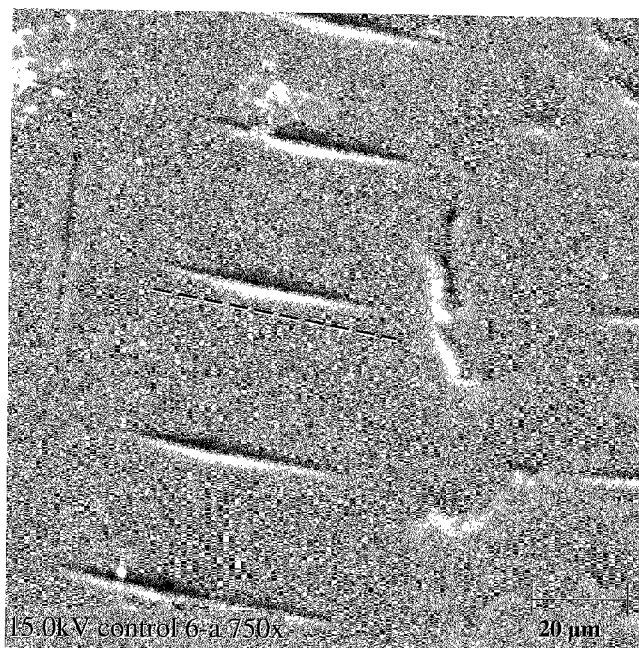


FIG. 1



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, RS, 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))*