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(21) International Application Number: PCT/US97/01785 (22) International Filing Date: 29 January 1997 (29.01.97) (30) Priority Data: <table border="0"><tr><td>60/010,795</td><td>29 January 1996 (29.01.96)</td><td>US</td></tr><tr><td>08/597,936</td><td>7 February 1996 (07.02.96)</td><td>US</td></tr><tr><td>Not furnished</td><td>29 January 1997 (29.01.97)</td><td>US</td></tr></table> (60) Parent Application or Grant (63) Related by Continuation US Not furnished (CIP) Filed on Not furnished (71) Applicants (for all designated States except US): UNIVERSITY OF MARYLAND AT BALTIMORE [US/US]; 520 Lombard Street, Baltimore, MD 21201 (US). USBIOMATERIALS CORPORATION [US/US]; One Progress Boulevard, Box #23, Alachua, FL 32615 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): LITKOWSKI, Leonard, J. [US/US]; 621 Sussex Road, Baltimore, MD 21286 (US). HACK, Gary, D. [US/US]; 8908 Skyrock Court, Columbia,		60/010,795	29 January 1996 (29.01.96)	US	08/597,936	7 February 1996 (07.02.96)	US	Not furnished	29 January 1997 (29.01.97)	US	MD 21046 (US). GREENSPAN, David, C. [US/US]; 3116 N.W. 62nd Terrace, Gainesville, FL 32606 (US). (74) Agents: GRUDZIECKI, Ronald, L. et al.; Burns, Doane, Swecker & Mathis, L.L.P., P.O. Box 1404, Alexandria, VA 22313-1404 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.
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(54) Title: BIOACTIVE GLASS COMPOSITIONS AND METHODS OF TREATMENT USING BIOACTIVE GLASS (57) Abstract A novel silica-based bioactive glass composition that can be used in conjunction with a delivery agent such as a toothpaste, gel, etc., having a particle size range < 90 μm which will form a rapid and continuous reaction with body fluids due to the immediate and long-term ionic release of Ca and P from the core silica particles, to produce a stable crystalline hydroxy carbonate apatite layer deposited onto and into the dentin tubules for the immediate and long-term reduction of dentin hypersensitivity and tooth surface remineralization.											

* (Referred to in PCT Gazette No.44/1997, Section II)