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(21) International Application Number: PCT/US99/03100 (22) International Filing Date: 12 February 1999 (12.02.99) (30) Priority Data: 60/074,708 13 February 1998 (13.02.98) US 60/075,222 19 February 1998 (19.02.98) US 09/234,038 19 January 1999 (19.01.99) US 09/233,793 19 January 1999 (19.01.99) US (71) Applicant: BRITESMILE, INC. [US/US]; Airport Business Center, Suite 204, 200 Diplomat Drive, Lester, PA 19113 (US). (72) Inventors: MONTGOMERY, Robert, Eric; 29 Fairview Road, Monterey, MA 01245 (US). NATHOO, Salim, A.; 577 South Randolphville Road, Piscataway, NJ 08854 (US). CIPOLLA, Anthony, John; 4332 Lycoming Creek Road, Cogan Station, PA 17728 (US). (74) Agents: KALOW, David, A. et al.; Kalow Springut & Bressler LLP, 19th floor, 488 Madison Avenue, New York, NY 10022 (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, GD, GE, GH, GM, HR, HU, ID, IL, IN, 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, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: LIGHT-ACTIVATED TOOTH WHITENING COMPOSITION AND METHOD OF USING SAME (57) Abstract The present invention provides a tooth whitening composition having a transparent first component that is a carrier compound and a transparent second component that is an oxidizing compound which when applied to a stained tooth and exposed to actinic light is activated to facilitate tooth whitening. The invention also provides a method for light-activated tooth whitening which comprise applying a tooth-whitening composition to one or more teeth and exposing said composition to actinic light to activate said oxidizing compound. The present invention further provides a device for tooth whitening which has a light source, at least one optical output, a projection means for holding and positioning said optical output outside of a patient's mouth in a manner so as to provide approximately simultaneous and uniform illumination of a patient's front teeth by said optical output; and a connection means for connecting said light source to said optical output. The invention also provides methods of using the device.		