United States Patent [19]

Brown et al.

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[54] **COMPOSITIONS AND METHODS FOR TOPICALLY FLUORIDATING AND/OR MINERALIZING DENTAL TISSUE**

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Related U.S. Application Data

[63] Continuation of Ser. No. 478,888, Mar. 25, 1983, abandoned.

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[52] **U.S. Cl.** **424/151;** 424/48; 424/49; 424/52; 424/57; 424/128

[58] **Field of Search** 424/52, 57, 128, 151

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[57] **ABSTRACT**

Solutions, gels, and substantially nonaqueous dispersions that form dicalcium phosphate dihydrate under appropriate conditions are disclosed, as well as methods for their use. These compositions are useful in topically fluoridating and/or mineralizing dental tissue, such as enamel, dentin, and exposed root surfaces. The incorporated fluoride is in the form of $Ca_5(PO_4)_3F$ and is more permanently retained than CaF_2 and other fluoridation products.

7 Claims, No Drawings