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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.