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(54) **ORAL CARE AND ORAL HYGIENE PRODUCTS HAVING PHOTOCATALYTIC ACTIVITY COMPRISING INORGANIC PARTICLES SUPERFICIALLY FUNCTIONALISED WITH TIO_2 NANOPARTICLES**

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(58) **Field of Classification Search**

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See application file for complete search history.

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(57) **ABSTRACT**

The present invention refers to oral care and oral hygiene products having photocatalytic activity comprising particles of a calcium phosphate compound, superficially functionalised with TiO2 nanoparticles in crystalline form, said TiO2 nanoparticles having: a) a substantially lamellar morphology; b) an aspect ratio (AR) comprised between 5 and 30; c) a surface structure having face (001) as outermost face of the crystalline lattice; and d) wherein the TiO2 is in the form of anatase, optionally mixed with rutile and/or brookite.

29 Claims, 5 Drawing Sheets