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(54) Title: PROCESS FOR THE PRODUCTION OF PHOTOCATALYTIC COATINGS ON SUBSTRATES

(57) Abstract: A process for the production of a photocatalytically active self-cleaning coated substrate, especially a glass substrate, which comprises depositing a titanium oxide coating on the surface of the substrate by contacting it with a fluid mixture containing a source of titanium and a source of oxygen, the substrate being at a temperature of at least 600 °C. The coated surface has good durability, a high photocatalytic activity and a low visible light reflection. Most preferably the deposition temperature is in the range 645 °C to 720 °C which provides especially good durability. The fluid mixture preferably contains titanium chloride and an ester, especially ethyl acetate. Also disclosed is a self cleaning coated substrate, especially a glass substrate, having high photocatalytic activity and low visible light reflection and a durable self-cleaning coated glass.



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