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(54) Title: MAKING CO-PRECIPTATED MIXED OXIDE-TREATED TITANIUM DIOXIDE PIGMENTS

(57) Abstract: Simplified and improved processes are provided for manufacturing titanium dioxide pigments including a surface treatment whereby a plurality of inorganic oxides or a combination of one or more inorganic oxides with one or more inorganic phosphates are applied to a titanium dioxide base pigment. Aqueous acid-soluble sources of the desired inorganic oxides and/or phosphates are predissolved in an aqueous acid, and these can be added on a batch wise or more preferably on a continuous basis to an alkaline slurry containing the titanium dioxide base pigment and to which aqueous alkaline-soluble sources of the desired inorganic oxides are being or have been added previously. Co-precipitation of the oxides and/or oxides and phosphates is then accomplished by an adjustment of the pH, to provide a surface treated pigment with excellent homogeneity of the deposited mixed oxides and/or oxides and phosphates.



WO 2008/136946 A1