

Title (en)

ELECTRODEPOSITION MATERIAL, PROCESS FOR PROVIDING A CORROSION-PROTECTIVE LAYER OF TiO₂ ON AN ELECTRICALLY CONDUCTIVE SUBSTRATE AND METAL SUBSTRATE COATED WITH A LAYER OF TiO₂

Title (de)

MATERIAL ZUR ELEKTROABSCHEIDUNG, VERFAHREN ZUR BEREITSTELLUNG EINER KORROSIONSSCHÜTZENDEN SCHICHT VON TiO₂ AUF EINEM ELEKTRISCH LEITENDEN SUBSTRAT UND MIT EINER TiO₂-SCHICHT BESCHICHTETES METALLSUBSTRAT

Title (fr)

MATERIAU D'ELECTRODEPOSITION, PROCEDE PERMETTANT DE FOURNIR UNE COUCHE ANTICORROSION DE TiO₂ A UN SUBSTRAT CONDUCTEUR ET SUBSTRAT METALLIQUE REVETU DE COUCHE DE TiO₂

Publication

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Application

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Abstract (en)

[origin: WO2006136333A2] The present invention relates to electrodeposition material for the electrochemical deposition of a corrosion-protective layer of TiO₂ on an electrically conductive substrate comprising a titanium compound, a complexing agent, an accelerator, water and optionally organic solvents, buffering agents and one or more additives, characterized in that the titanium compound is titanyl sulfate and/or titanyl oxalate, the complexing agent is selected from the group consisting of citric acid, citrates, tartaric acid, tartrates, lactic acid, lactates, gluconic acid, gluconates, polyhydroxy- polycarbonic acids, ethylenediaminetetraacetate, methylglycinediacetate, iminodisuccinate, nitrilotriacetic acid and nitrilotriacetate, triethanolamine, phosphonic acid and phosphonates, poly-aspartic acid and polyaspartates, polyacrylic acid and polyacrylates and the accelerator is selected from the group consisting of H₂O₂ and organic peroxides. The invention further relates to a process for providing a corrosion-protective layer of TiO₂ on an electrically conductive substrate and to a metal substrate coated with a layer of TiO₂.

IPC 8 full level

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Citation (search report)

See references of WO 2006136333A2

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