

Title (en)

COATING POWDER BASED ON CHEMICALLY MODIFIED TITANIUM SUBOXIDES

Title (de)

BESCHICHTUNGSPULVER AUF DER BASIS VON CHEMISCH MODIFIZIERTEN TITANSUBOXIDEN

Title (fr)

POUDRE DE REVETEMENT A BASE DE SOUS-OXYDES DE TITANE CHIMIQUEMENT MODIFIES

Publication

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Application

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Abstract (en)

[origin: US2004136898A1] A coating powder based on chemically modified titanium suboxides is described. Coatings produced by using the inventive coating powder exhibit high electroconductivity, good solid lubricating properties and resistance to wear. For these reasons, there are possibilities of use for components with such coatings, especially as functional components in fuel cells, in electrochemical installations, in the motor vehicle industry, in mechanical engineering and in other industries. The inventive coating powder based on titanium suboxides having a defined defect structure is characterized in that it is modified by at least one metallic alloying element and described by general formula: $Ti_{n-2}Me_2O_{2n-1}$.

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