

Title (en)

THE FORMATION METHOD OF POROUS ANTIBACTERIAL COATINGS ON TITANIUM AND TITANIUM ALLOYS SURFACE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON PORÖSEN ANTIBAKTERIELLEN BESCHICHTUNGEN AUF DER OBERFLÄCHE VON TITAN UND TITANLEGIERUNGEN

Title (fr)

PROCÉDÉ DE FORMATION DE REVÊTEMENTS ANTIBACTÉRIENS POREUX SUR UNE SURFACE DE TITANE ET D'ALLIAGES DE TITANE

Publication

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Application

EP 20460020 A 20200427

Priority

PL 43037519 A 20190625

Abstract (en)

The method of titanium surface modification by plasma electrochemical oxidation in $\text{Ca}(\text{HPO}_4)_2$ baths at a concentration from 0.01 mol-dm⁻³ to 5 mol-dm⁻³ with an anodic current density from 1 mA·cm⁻² to 250 mA·cm⁻² and applied voltage from 50 V to 600 V is characterized by immersing the surface-modified element in an aqueous salt solution with insoluble particles of silver(I) oxide Ag_2O , copper(I) oxide Cu_2O or copper(II) oxide CuO at a concentration from 1 g-dm⁻³ to 400 g-dm⁻³.

IPC 8 full level

C25D 11/02 (2006.01); **C25D 11/26** (2006.01)

CPC (source: EP)

C25D 11/026 (2013.01); **C25D 11/26** (2013.01)

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