

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
EP 3816327 B1 20231018 (EN)

Application
EP 20460021 A 20200505

Priority
PL 43037419 A 20190625

Abstract (en)
[origin: EP3816327A1] The method of titanium surface modification by plasma electrochemical oxidation in $\text{Ca}(\text{HPO}_4)_2$ baths at a concentration from $0.01 \text{ mol} \cdot \text{dm}^{-3}$ to $5 \text{ mol} \cdot \text{dm}^{-3}$ with an anodic current density from $1 \text{ mA} \cdot \text{cm}^{-2}$ to $250 \text{ mA} \cdot \text{cm}^{-2}$ 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 metal phosphate at a concentration from $1 \text{ g} \cdot \text{dm}^{-3}$ to $400 \text{ g} \cdot \text{dm}^{-3}$.

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)

Citation (examination)
PL 240205 B1 20220228 - OSTEOPANT RES AND DEVELOPMENT SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA [PL]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3816327 A1 20210505; EP 3816327 B1 20231018; EP 3816327 B8 20231220; PL 239584 B1 20211220; PL 3816327 T3 20240318; PL 430374 A1 20200713

DOCDB simple family (application)
EP 20460021 A 20200505; PL 20460021 T 20200505; PL 43037419 A 20190625