

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)

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PL 240205 B1 20220228 - OSTEOPLANT RES AND DEVELOPMENT SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA [PL]

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