

Title (en)

METHODS OF DEPOSITING DISCRETE HYDROXYAPATITE REGIONS ON MEDICAL IMPLANTS

Title (de)

VERFAHREN ZUR AUFTRAGUNG VON EINZELNEN HYDROXYAPATITREGIONEN AUF MEDIZINISCHE IMPLANTATE

Title (fr)

PROCÉDÉS DE DÉPÔT DE RÉGIONS INDIVIDUELLES D'HYDROXYAPATITE SUR DES IMPLANTS MÉDICAUX

Publication

EP 2491167 B1 20190710 (EN)

Application

EP 10773461 A 20101019

Priority

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Abstract (en)

[origin: US2011089041A1] A method for electrochemically depositing discrete regions of calcium phosphate onto a medical implant. The method includes providing an implant including at least one area having a metallic surface. At least a portion of the metallic surface is contacted with an electrolyte solution comprising calcium ions and phosphate ions. The metallic surface is used as a cathode, and an electrical potential is applied between the cathode and the electrolyte solution. The electrical potential is applied with a constant current density of from about 10 to about 50 mA/cm² for a period of time of from about 1 to about 20 minutes. A plurality of discrete regions of needle-shaped hydroxyapatite crystals are electrochemically deposited onto the metallic surface.

IPC 8 full level

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CPC (source: EP US)

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