

Title (en)

BIOACTIVE CALCIUM PHOSPHATE COMPOSITE LAYERS ELECTROCHEMICALLY DEPOSITED ON IMPLANTS

Title (de)

ELEKTROCHEMISCH ABGESCHIEDENE, BIOAKTIVE CALCIUMPHOSPHAT-KOMPOSITTSCHICHTEN AUF IMPLANTATEN

Title (fr)

COUCHES COMPOSITES DE PHOSPHATE DE CALCIUM BIOACTIVES DEPOSEES ELECTROCHIMIQUEMENT SUR DES IMPLANTS

Publication

EP 1301220 A1 20030416 (DE)

Application

EP 00945927 A 20000717

Priority

EP 0006838 W 20000717

Abstract (en)

[origin: WO0205862A1] The invention relates to calcium phosphate composite layers which are electrochemically deposited on bone implants. Implants which are coated in such a way are implanted without cement and are characterised by improved growing-in behaviour. Said highly porous composite layers on implants are made of at least two calcium phosphate phases of different solubility. The highly porous structure of said layers facilitates the immobilisation of cells from which new bone tissue can be made. The different solubility of the individual layer components ensures local concentration of calcium and phosphate ions which accelerates the incorporation process and which adapts to said process over the course of time.

IPC 1-7

A61L 27/32

IPC 8 full level

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IPC 8 main group level

A61L (2006.01)

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