

Title (en)

BIOACTIVELY COATED METAL IMPLANTS AND METHODS FOR THE PRODUCTION THEREOF

Title (de)

BIOAKTIV BESCHICHTETE METALLIMPLANTATE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

IMPLANTS DE MÉTAL REVÊTUS DE FAÇON BIOACTIVE ET PROCÉDÉ POUR LEUR FABRICATION

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Application

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Abstract (en)

[origin: WO2011026938A1] The invention relates to methods for producing a partial or complete bioactive coating of an iron and/or zinc based metal implant material with calcium phosphates, a bioactively coated iron and/or zinc based metal implant, which is partially or completely coated with calcium phosphates, and bone implants containing an implant material according to the invention. In order to produce the coating according to the invention, iron and/or zinc based metal implant materials are brought in contact with acidic aqueous solutions, which have a pH value of 6.0 or less and contain calcium phosphates, whereby a calcium phosphate layer is deposited on the surface of the implant materials. The iron and/or zinc based metal implant materials, which are used in methods according to the invention, are materials consisting of base iron alloys or pure iron or materials that contain other substances, which are coated with pure iron, with a base iron alloy and/or with zinc.

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