

Title (en)

BIO ACTIVE CERAMIC COATINGS WITH EXCELLENT BIO-COMPATIBILITY AND PREPARATION METHOD THEREOF

Title (de)

BIOAKTIVE KERAMIKBESCHICHTUNGEN MIT HERVORRAGENDER BIOKOMPATIBILITÄT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

REVÊTEMENTS À BASE DE CÉRAMIQUE BIOACTIVE PRÉSENTANT UNE EXCELLENTE BIOACTIVITÉ ET SON PROCÉDÉ DE PRÉPARATION

Publication

EP 2071916 A1 20090624 (EN)

Application

EP 07768796 A 20070718

Priority

- KR 2007003469 W 20070718
- KR 20060094808 A 20060928

Abstract (en)

[origin: WO2008038897A1] Disclosed herein are a bioactive ceramic coating having excellent biocompatibility and a preparation method thereof. The bioactive ceramic coating is coated onto a metallic material or a ceramic material, including alumina or zirconia, consists of crystalline grains, having an average diameter of less than 0.1 μm , and non-crystalline grains, and has a density of greater than 95% and a thickness ranging from 0.1 to 100 μm . Since the bioactive ceramic coating is present at a mixed state of crystalline grains, having an average diameter of less than 100 nm, and non-crystalline grains, has a crack-free and dense structure, and has excellent biocompatibility, it is useful in bone reconstruction, for example, as a surgical implant or an artificial hip joint.

IPC 8 full level

A61F 2/28 (2006.01)

CPC (source: EP KR)

A61F 2/30767 (2013.01 - KR); **A61F 2/30942** (2013.01 - KR); **A61F 2/32** (2013.01 - KR); **A61L 27/306** (2013.01 - EP KR); **C23C 24/08** (2013.01 - EP KR); **C23C 26/00** (2013.01 - EP KR); **C23C 30/00** (2013.01 - EP KR); **A61F 2/30767** (2013.01 - EP); **A61F 2/3094** (2013.01 - EP); **A61F 2/32** (2013.01 - EP); **A61F 2310/00011** (2013.01 - EP KR); **A61F 2310/00017** (2013.01 - EP KR); **A61F 2310/00023** (2013.01 - EP KR); **A61F 2310/00203** (2013.01 - EP KR); **A61F 2310/00239** (2013.01 - EP KR); **A61F 2310/00796** (2013.01 - EP KR)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008038897 A1 20080403; EP 2071916 A1 20090624; EP 2071916 A4 20100818; KR 100751505 B1 20070823

DOCDB simple family (application)

KR 2007003469 W 20070718; EP 07768796 A 20070718; KR 20060094808 A 20060928