

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 A4 20100818 (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)

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Citation (search report)

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- See references of WO 2008038897A1

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