TÍTULO:

METHOD TO PRODUCE NANOPOROUS COATINGS IN OPEN AIR CONDITIONS

TITULARES:

Universidad de Vigo

APLICACIONES:

Ingeniería biomédica

PRODUCTO:

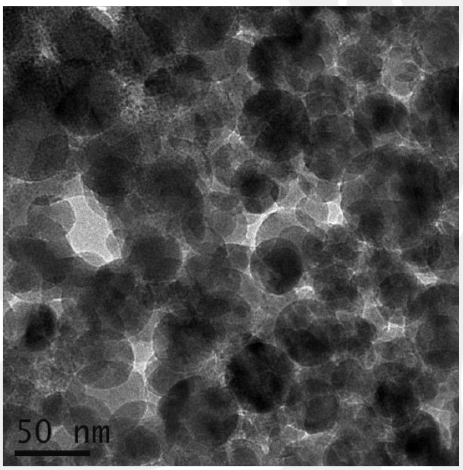
Patente

SITUACIÓN:

Europa: Concedida EP14193687.2. Año 2020
https://register.epo.org/application?number=EP14193687&lng=en&tab=main

RESUMEN

This invention is related to a method for producing nanoporous coatings on substrates by means of laser radiation application. The method may be advantageously applied for the preparation of thin films of coatings with a high degree of porosity at a nanoscale range, that is, ultra-high nanoporous coatings.



Detail of a nanoporous coating of titanium oxide nanoparticles as observed under a High-Resolution Transmission Electron Microscope.

This type of coating provides both osteointegration improvement and bactericidal effect to implants