

Title (en)

BIOCIDAL MEDICAL PRODUCT CONTAINING BRANCHED AMPHIPHILIC MACROMOLECULES AND METAL NANOPARTICLES, METHOD FOR THE PRODUCTION THEREOF AND ITS USE

Title (de)

BIOZIDES MEDIZINTECHNISCHES PRODUKT ENTHALTEND VERZWEIGTE AMPHIPHILE MAKROMOLEKÜLE UND METALLNANOPARTIKEL, VERFAHREN ZU SEINER HERSTELLUNG UND VERWENDUNG

Title (fr)

PRODUIT MEDICAL BIOCIIDE CONTENANT DES MACROMOLECULES AMPHIPHILES RAMIFIEES ET DES NANOPARTICULES DE METAL, PROCEDE DE PRODUCTION CORRESPONDANT ET UTILISATION

Publication

**EP 1635886 A1 20060322 (DE)**

Application

**EP 04733559 A 20040518**

Priority

- EP 2004005325 W 20040518
- DE 10323597 A 20030519

Abstract (en)

[origin: US2004234604A1] The invention relates to a medical-technology product with a layer of a hybrid complex material composed of a branched amphiphilic macromolecule and of a metal nanoparticle, to the use of a hybrid complex material composed of a branched amphiphilic macromolecule and of a metal nanoparticle as a biocide for medical-technology products, and also to a process for producing a hybrid complex material composed of a branched amphiphilic macromolecule and of a metal nanoparticle, by dissolving a metal compound, with complexing, followed by reduction of the metal compound, and to a process for producing medical-technology products wherein the hybrid complex material is applied from outside to the product or is added to the polymer material of the product during its production.

IPC 1-7

**A61L 27/34**; **A61L 27/30**; **A61L 27/54**

IPC 8 full level

**A01N 59/16** (2006.01); **A61L 27/34** (2006.01); **A61L 27/44** (2006.01); **A61L 27/54** (2006.01)

CPC (source: EP US)

**A01N 59/16** (2013.01 - EP US); **A61L 27/34** (2013.01 - EP US); **A61L 27/446** (2013.01 - EP US); **A61L 27/54** (2013.01 - EP US); **A61L 2300/102** (2013.01 - EP US); **A61L 2300/104** (2013.01 - EP US); **A61L 2300/404** (2013.01 - EP US); **A61L 2300/624** (2013.01 - EP US)

Citation (search report)

See references of WO 2004101011A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**US 2004234604 A1 20041125**; DE 10323597 A1 20041209; EP 1635886 A1 20060322; WO 2004101011 A1 20041125

DOCDB simple family (application)

**US 71455203 A 20031117**; DE 10323597 A 20030519; EP 04733559 A 20040518; EP 2004005325 W 20040518