

Title (en)

PROCESS FOR PREPARATION OF MEDICAL GRADE POLYURETHANE COMPOSITES CONTAINING ANTIBACTERIAL ZEOLITE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ANTIBAKTERIELLEN ZEOLITH ENTHALTENDEN POLYURETHANVERBUNDWERKSTOFFEN MIT MEDIZINISCHER QUALITÄT

Title (fr)

PROCÉDÉ DE PRÉPARATION DE COMPOSITES DE POLYURÉTHANE DE QUALITÉ MÉDICALE CONTENANT UNE ZÉOLITE ANTIBACTÉRIENNE

Publication

EP 2342248 A1 20110713 (EN)

Application

EP 08876341 A 20080926

Priority

TR 2008000115 W 20080926

Abstract (en)

[origin: WO2010036214A1] This invention is related to the preparation processes and the products of polymeric composites containing antibacterial properties. The composites were prepared from the medical grade polyurethanes and silver ion containing zeolites which the synthesis procedures of both are also included in this invention. Zeolite crystals were prepared in various forms as micro and nano particules and at different SiO₂/Al₂O₃ ratios. Antibacterial properties were included with addition of silver ions into zeolite particules. Medical grade polyurethanes were synthesized from their components in the presence of no other additives in various forms as films sponges or fibers. Composites were formed with combination of these two components. The prepared antibacterial composite materials can be applied in textiles, paint industry, coating materials for metals ceramics or wood, public toilets, keyboards, paper industry, household hygiene items, cosmetics, hospital beds and floors, etc.

IPC 8 full level

C08G 18/10 (2006.01); **C08G 18/48** (2006.01); **C08J 5/18** (2006.01); **C08K 3/34** (2006.01)

CPC (source: EP)

C08G 18/10 (2013.01); **C08G 18/4825** (2013.01); **C08G 18/4845** (2013.01); **C08K 3/34** (2013.01); **C08G 2110/0083** (2021.01)

Citation (search report)

See references of WO 2010036214A1

Cited by

CN111057326A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2010036214 A1 20100401; EP 2342248 A1 20110713

DOCDB simple family (application)

TR 2008000115 W 20080926; EP 08876341 A 20080926