

Title (en)
ELECTRICALLY INSULATING COMPOSITE MATERIAL, METHOD FOR PRODUCING SUCH A MATERIAL AND USE THEREOF AS EN ELECTRICAL INSULANT

Title (de)
ELEKTRISCH ISOLIERENDES VERBUNDMATERIAL, VERFAHREN ZUR HERSTELLUNG SOLCH EINES MATERIALS UND VERWENDUNG DAVON ALS ELEKTRISCHES ISOLATIONSMITTEL

Title (fr)
MATÉRIAU COMPOSITE ÉLECTRIQUEMENT ISOLANT, PROCÉDÉ DE FABRICATION D'UN TEL MATÉRIAU ET SON UTILISATION EN TANT QU'ISOLANT ÉLECTRIQUE

Publication
EP 3020050 A1 20160518 (FR)

Application
EP 14736806 A 20140708

Priority
• FR 1356684 A 20130708
• EP 2014064561 W 20140708

Abstract (en)
[origin: WO2015004115A1] The invention relates to an electrically insulating material comprising a thermostable and electrically insulating polymer matrix wherein electrically insulating inorganic nanoparticles of all sizes smaller than or equal to 200nm are dispersed. Said material is especially applicable as an electrical insulant, especially in the form of a film, in electrical, electronic or electrotechnical systems wherein it may be subjected to temperatures higher than 200°C and strong electric fields.

IPC 8 full level
H01B 3/30 (2006.01); **B82Y 30/00** (2011.01); **C08K 3/38** (2006.01)

CPC (source: EP US)
C08J 5/18 (2013.01 - US); **C08K 3/28** (2013.01 - US); **C08K 3/34** (2013.01 - US); **C08K 3/38** (2013.01 - EP US); **C08K 7/18** (2013.01 - US); **H01B 3/306** (2013.01 - EP US); **H01B 3/46** (2013.01 - EP US); **B82Y 30/00** (2013.01 - EP US); **C08J 2379/08** (2013.01 - US); **C08J 2383/04** (2013.01 - US); **C08K 2003/282** (2013.01 - US); **C08K 2003/385** (2013.01 - US)

Citation (search report)
See references of WO 2015004115A1

Cited by
US11728090B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
FR 3008223 A1 20150109; FR 3008223 B1 20170127; CN 105612587 A 20160525; EP 3020050 A1 20160518; JP 2016531972 A 20161013; US 2016152794 A1 20160602; WO 2015004115 A1 20150115

DOCDB simple family (application)
FR 1356684 A 20130708; CN 201480038950 A 20140708; EP 14736806 A 20140708; EP 2014064561 W 20140708; JP 2016524793 A 20140708; US 201414903175 A 20140708