

Title (en)

POLYMERIC MATERIALS INCORPORATING CARBON NANOSTRUCTURES AND METHODS FOR MAKING SAME

Title (de)

POLYMER MATERIALIEN MIT KOHLENSTOFF-NANOSTRUKTUREN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATÉRIAUX POLYMÈRES INCORPORANT DES NANOSTRUCTURES CARBONÉES ET MÉTHODES DE FABRICATION

Publication

**EP 1981706 A4 20100407 (EN)**

Application

**EP 07811797 A 20070206**

Priority

- US 2007061655 W 20070206
- US 35162006 A 20060209
- US 61400606 A 20061220

Abstract (en)

[origin: WO2007143237A2] The present invention relates to novel composites that incorporate carbon nanospheres into a polymeric material. The polymeric material can be any polymer or polymerizable material compatible with graphitic materials. The carbon nanospheres are hollow, graphitic nanoparticles. The carbon nanospheres can be manufactured from a carbon precursor using templating catalytic nanoparticles. The unique size, shape, and electrical properties of the carbon nanospheres impart beneficial properties to the composites incorporating these nanomaterials.

IPC 8 full level

**B32B 9/00** (2006.01); **C08J 5/00** (2006.01); **C08K 7/18** (2006.01)

CPC (source: EP KR)

**B82Y 30/00** (2013.01 - EP KR); **C08J 5/005** (2013.01 - EP KR); **C08K 3/04** (2013.01 - KR); **C08K 7/24** (2013.01 - EP KR); **C08K 2201/011** (2013.01 - EP KR)

Citation (search report)

- [X] US 5612021 A 19970318 - MELLUL MYRIAM [FR]
- [X] EP 0544513 A1 19930602 - EXXON RESEARCH ENGINEERING CO [US]
- [X] EP 1502609 A1 20050202 - TERUMO CORP [JP]
- [X] EP 0852246 A2 19980708 - HOECHST AG [DE]
- [X] US 2005136079 A1 20050623 - BURANGULOV NAIL [RU], et al
- [X] WO 0024816 A1 20000504 - PIRELLI CABLES & SYSTEMS LLC [US]
- [X] US 2004176513 A1 20040909 - CAKMAK MUKERREM [US], et al
- See references of WO 2007143237A2

Cited by

US7282033B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 2007143237 A2 20071213**; **WO 2007143237 A3 20080717**; CA 2640107 A1 20071213; EP 1981706 A2 20081022; EP 1981706 A4 20100407; JP 2009538363 A 20091105; KR 20080098054 A 20081106

DOCDB simple family (application)

**US 2007061655 W 20070206**; CA 2640107 A 20070206; EP 07811797 A 20070206; JP 2008554475 A 20070206; KR 20087021784 A 20080905