

Title (en)

RADIOFREQUENCY COMPATIBLE AND X-RAY TRANSLUCENT CARBON FIBER AND HYBRID CARBON FIBER STRUCTURES

Title (de)

RADIOFREQUENZKOMPATIBLE UND RÖNTGENSTRAHLENDURCHLÄSSIGE KOHLENSTOFFFASER- UND HYBRIDKOHLEFASERSTRUKTUREN

Title (fr)

FIBRE DE CARBONE TRANSLUCIDE AUX RAYONS X ET COMPATIBLE AVEC UNE RADIOFRÉQUENCE, ET STRUCTURES DE FIBRE DE CARBONE HYBRIDES

Publication

**EP 3048957 A1 20160803 (EN)**

Application

**EP 15735191 A 20150105**

Priority

- US 201414150357 A 20140108
- US 2015010123 W 20150105

Abstract (en)

[origin: WO2015105747A1] The present disclosure provides a structure constructed of carbon fiber that is compatible with Magnetic Resonance imaging and other radiofrequency technologies. The structure includes carbon fiber elements as well as insulating elements that are substantially x-ray translucent (radiolucent). These elements are arranged in such a way that the structure can be used in modalities such as Magnetic Resonance imaging where carbon fibers typically cannot be used due to image distortion and localized heating. At the same time, the structures are designed to maintain radiolucency that is significantly homogeneous.

IPC 8 full level

**A61B 5/00** (2006.01)

CPC (source: EP)

**A61B 5/055** (2013.01); **A61B 6/0442** (2013.01); **B32B 5/12** (2013.01); **A61B 2562/17** (2017.07); **A61N 2005/1052** (2013.01); **A61N 2005/1055** (2013.01); **A61N 2005/1097** (2013.01)

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)

**WO 2015105747 A1 20150716**; CN 105744884 A 20160706; EP 3048957 A1 20160803; EP 3048957 A4 20170524

DOCDB simple family (application)

**US 2015010123 W 20150105**; CN 201580002592 A 20150105; EP 15735191 A 20150105