

Title (en)
MULTI-DENSITY POLYMERIC INTERBODY SPACER AND METHOD FOR FABRICATION THEREOF

Title (de)
ZWISCHENWIRBEL-ABSTANDSSTÜCK AUS EINEM POLYMER VON MEHRFACHER DICHT E UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
ESPACEUR INTERSOMATIQUE POLYMÈRE MULTI-DENSITÉ ET SON PROCÉDÉ DE FABRICATION

Publication
EP 2453937 A2 20120523 (EN)

Application
EP 10800407 A 20100713

Priority

- US 2010041790 W 20100713
- US 50259709 A 20090714
- US 50263509 A 20090714

Abstract (en)
[origin: WO2011008733A2] A multi-density polymeric interbody spacer formed from biocompatible material for osteoconductivity includes multiple density regions of different porosity to provide both strength and osteoconductivity. An interface region is formed between the density regions to provide both direct adhesion and mechanical interlocking between the different density regions to increase the strength of the multi-density polymeric interbody spacer. A method for forming the multi-density polymeric interbody spacer includes curing a first density region to achieve a first target porosity. A second density region may then be molded to the first density region to achieve a second target porosity. A portion of the second density region partially flows into pores of the first density region, providing direct adhesion and mechanical interlocking between the first and second density regions.

IPC 8 full level
A61L 27/56 (2006.01); **A61F 2/28** (2006.01); **A61L 27/14** (2006.01); **A61L 27/54** (2006.01); **B29C 39/18** (2006.01)

CPC (source: EP)
A61L 31/129 (2013.01); **A61L 31/146** (2013.01); **B29C 39/006** (2013.01); **B29C 39/025** (2013.01); **B29C 39/10** (2013.01); **B29L 2031/7532** (2013.01)

Citation (search report)
See references of WO 2011008733A2

Cited by
GB2500514B; US9867711B2; US9549821B2; US9901456B2

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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2011008733 A2 20110120; WO 2011008733 A3 20110707; AU 2010273530 A1 20120209; CA 2767822 A1 20110120; EP 2453937 A2 20120523

DOCDB simple family (application)
US 2010041790 W 20100713; AU 2010273530 A 20100713; CA 2767822 A 20100713; EP 10800407 A 20100713