

Title (en)

INTERVERTEBRAL-DISC PROSTHESIS MADE FROM A THERMOPLASTIC MATERIAL AND HAVING GRADUATED MECHANICAL PROPERTIES

Title (de)

BANDSCHEIBENPROTHESE AUS THERMOPLASTISCHEM KUNSTSTOFF MIT ABGESTUFTEN MECHANISCHEN EIGENSCHAFTEN

Title (fr)

PROTHESE DE DISQUE INTERVERTEBRAL EN MATERIAU THERMOPLASTIQUE A GRADIENT DE PROPRIETES MECANQUES

Publication

EP 2701636 A1 20140305 (FR)

Application

EP 12716445 A 20120425

Priority

- FR 1153600 A 20110427
- EP 2012057559 W 20120425

Abstract (en)

[origin: WO2012146615A1] The invention relates to an intervertebral-disc prosthesis including a structure comprising a rigid upper plate (10), a rigid lower plate (11), and a core (20) inserted between said plates, characterized in that said structure is made from a thermoplastic material, the core further including a thermoplastic monomaterial having graduated elastic and damping properties. According to one alternative embodiment, said core consists of an elastomeric central core (20c, 20ci) surrounded by one or more rings (20p, 20pj), which are referred to as rings having ranks j relative to the core, and which are more rigid.

IPC 8 full level

A61F 2/44 (2006.01)

CPC (source: EP US)

A61F 2/3094 (2013.01 - EP US); **A61F 2/442** (2013.01 - EP US); **A61F 2/4425** (2013.01 - US); **A61L 27/16** (2013.01 - US); **B29C 45/0001** (2013.01 - US); **B29C 45/0003** (2013.01 - US); **A61F 2002/30014** (2013.01 - EP US); **A61F 2002/3023** (2013.01 - EP US); **A61F 2002/30281** (2013.01 - US); **A61F 2002/30324** (2013.01 - EP US); **A61F 2002/30448** (2013.01 - EP US); **A61F 2002/30451** (2013.01 - EP US); **A61F 2002/30563** (2013.01 - EP US); **A61F 2002/30957** (2013.01 - EP US); **A61F 2002/30971** (2013.01 - EP US); **A61F 2002/443** (2013.01 - US); **A61L 2430/38** (2013.01 - US); **B29K 2023/0616** (2013.01 - US); **B29K 2023/0625** (2013.01 - US); **B29K 2023/065** (2013.01 - US); **B29K 2995/0056** (2013.01 - US); **B29L 2031/7532** (2013.01 - EP US)

Citation (search report)

See references of WO 2012146615A1

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

DOCDB simple family (publication)

WO 2012146615 A1 20121101; EP 2701636 A1 20140305; FR 2974497 A1 20121102; US 2015045890 A1 20150212

DOCDB simple family (application)

EP 2012057559 W 20120425; EP 12716445 A 20120425; FR 1153600 A 20110427; US 201214114522 A 20120425