

Title (en)
BIOABSORBABLE POLYMERIC COMPOSITIONS AND MEDICAL DEVICES

Title (de)
BIORESORBIERBARE POLYMERZUSAMMENSETZUNGEN UND MEDIZINISCHE VORRICHTUNGEN

Title (fr)
COMPOSITIONS POLYMÈRES BIOABSORBABLES ET DISPOSITIFS MÉDICAUX

Publication
EP 2430068 A1 20120321 (EN)

Application
EP 10775683 A 20100517

Priority

- US 2010035169 W 20100517
- US 17887809 P 20090515
- US 57843209 A 20091013
- US 57696509 A 20091009
- US 50766309 A 20090722

Abstract (en)
[origin: WO2010132899A1] The present invention discloses a stent comprising a blend formed from a polymer. The polymer comprises poly-L-lactide, poly-D-lactide or mixtures thereof and a copolymer moiety comprising poly-L-lactide or poly-D-lactide linked with epsilon-caprolactone or trimethylcarbonate. The poly-L-lactide or poly-D-lactide sequence in the copolymer moiety is random with respect to the distribution of epsilon-caprolactone or trimethylcarbonate and the copolymer moiety molecular weight ranges from about 1.2 IV to about 4.8 IV. The polymere blend may have a wide-angle X-ray scattering (W AXS) 2-theta values of ranging from about 1 to about 35. The properties of the bioabsorbable polymers allow for both crimping and expansion of the stent. The crystal properties of the bioabsorbable polymers may change during crimping and/or expansion allowing for improved mechanical properties such as tensile strength and slower degradation kinetics

IPC 8 full level
A61L 31/04 (2006.01); **A61L 31/14** (2006.01); **C08G 63/91** (2006.01); **C08G 65/32** (2006.01); **C08L 67/04** (2006.01); **C08L 69/00** (2006.01); **C08L 71/00** (2006.01)

CPC (source: EP)
A61L 31/041 (2013.01); **A61L 31/14** (2013.01); **C08L 67/04** (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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2010132899 A1 20101118; CN 102459408 A 20120516; EP 2430068 A1 20120321; EP 2430068 A4 20140702

DOCDB simple family (application)
US 2010035169 W 20100517; CN 201080032221 A 20100517; EP 10775683 A 20100517