

Title (en)
BIODEGRADABLE COPOLYESTERS

Title (de)
BIOLOGISCH ABBAUBARE COPOLYESTER

Title (fr)
POLYESTER BIODÉGRADABLE

Publication
EP 3227352 A1 20171011 (DE)

Application
EP 15801468 A 20151130

Priority
• EP 14196578 A 20141205
• EP 2015078061 W 20151130

Abstract (en)
[origin: WO2016087372A1] The invention relates to a biodegradable copolyester that has a molecular weight Mn measured in accordance with GPC of 10,000 to 100,000 and that can be obtained by reacting vi) 51 to 84 wt%, with respect to the copolyester, of a branched polyester middle block based on aliphatic or aliphatic and aromatic dicarboxylic acids and aliphatic dihydroxy compounds and having a molecular weight Mn measured in accordance with 1H-NMR of 5,000 to 25,000 with vii) 15.9 to 48.9 wt%, with respect to the copolyester, of a lactide in the presence of a catalyst and then reacting the polyester triblock thus obtained and having a molecular weight Mn measured in accordance with 1H-NMR of 5,800 to 49,500 with viii) 0.1 to 3 wt%, with respect to the copolyester, of a diisocyanate. The invention further relates to a method for producing the biodegradable copolyesters mentioned above and to the use of the biodegradable copolyesters mentioned above.

IPC 8 full level
C08G 18/42 (2006.01); **C08G 63/08** (2006.01); **C08G 63/60** (2006.01)

CPC (source: EP US)
C08G 18/428 (2013.01 - EP US); **C08G 18/4286** (2013.01 - EP US); **C08G 18/73** (2013.01 - US); **C08G 63/08** (2013.01 - US); **C08G 63/18** (2013.01 - US); **C08G 63/181** (2013.01 - US); **C08G 63/60** (2013.01 - EP US); **C08G 63/78** (2013.01 - US); **C08G 63/80** (2013.01 - US); **C08G 63/91** (2013.01 - US); **C08G 63/916** (2013.01 - US)

Citation (search report)
See references of WO 2016087372A1

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 2016087372 A1 20160609; EP 3227352 A1 20171011; US 10106642 B2 20181023; US 2017362373 A1 20171221

DOCDB simple family (application)
EP 2015078061 W 20151130; EP 15801468 A 20151130; US 201515532834 A 20151130