

Title (en)

METHODS FOR PRODUCING DODECANEDIOIC ACID AND DERIVATIVES THEREOF

Title (de)

VERFAHREN ZUR HERSTELLUNG VON DODECANDISÄURE UND DERIVATEN DAVON

Title (fr)

PROCÉDÉS POUR PRODUIRE DE L'ACIDE DODÉCANEDIOÏQUE ET SES DÉRIVÉS

Publication

**EP 2389349 A2 20111130 (EN)**

Application

**EP 10701303 A 20100122**

Priority

- US 2010021894 W 20100122
- US 14654509 P 20090122

Abstract (en)

[origin: WO2010085712A2] Methods for producing biosourced dodecanedioic acid and compositions comprising biosourced dodecanedioic acid are provided. In some embodiments, the method comprises first forming muconic acid biologically from a renewable carbon source, reducing the muconic acid to hexenedioic acid, and then reacting the hexenedioic acid with an unsaturated fatty acid, typically a ?9 unsaturated fatty acid, in a metathesis reaction to produce dodecenedioic acid. Dodecenedioic acid is then reduced to dodecanedioic acid. Dodecanedioic acid is can be used to form polymers, such as polyamides. Examples of polyamides include nylon, such as nylon 6,12. Nylon 6,12 can be formed by reacting dodecanedioic acid with 1,6-hexamethylene diamine.

IPC 8 full level

**C07C 57/16** (2006.01); **C07C 51/353** (2006.01); **C07C 51/36** (2006.01); **C07C 55/02** (2006.01); **C07C 55/21** (2006.01); **C07C 57/13** (2006.01); **C07C 67/08** (2006.01); **C07C 67/303** (2006.01); **C07C 67/343** (2006.01); **C07C 69/34** (2006.01); **C07C 69/593** (2006.01); **C08G 69/26** (2006.01); **C12P 7/44** (2006.01)

CPC (source: EP KR)

**C07C 51/353** (2013.01 - EP KR); **C07C 51/36** (2013.01 - EP); **C07C 55/02** (2013.01 - KR); **C07C 67/08** (2013.01 - EP); **C07C 67/303** (2013.01 - EP); **C07C 67/475** (2013.01 - EP); **C07C 69/34** (2013.01 - EP); **C07C 69/593** (2013.01 - EP); **C08G 69/26** (2013.01 - EP KR); **C12P 7/44** (2013.01 - EP KR)

Citation (search report)

See references of WO 2010085712A2

Designated contracting state (EPC)

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 2010085712 A2 20100729**; **WO 2010085712 A3 20100916**; CN 102498086 A 20120613; EP 2389349 A2 20111130; JP 2012515795 A 20120712; KR 20110125221 A 20111118

DOCDB simple family (application)

**US 2010021894 W 20100122**; CN 201080009713 A 20100122; EP 10701303 A 20100122; JP 2011548161 A 20100122; KR 20117019342 A 20100122