

Title (en)

METHOD FOR PRODUCING (METH)ACRYLIC ESTERS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON (METH)ACRYLSÄUREESTERN

Title (fr)

PROCEDE DE PRODUCTION D'ESTERS (METH)ACRYLIQUES

Publication

EP 3426628 A1 20190116 (FR)

Application

EP 17709153 A 20170214

Priority

- FR 1652001 A 20160310
- FR 2017050331 W 20170214

Abstract (en)

[origin: WO2017153653A1] The present invention relates to a method for synthesising C1 -C10 alkyl (meth)acrylates, by direct esterification of (meth)acrylic acid with the corresponding alcohol, wherein the reaction is carried out in a fixed-bed membrane reactor under conditions where the water generated by the reaction is eliminated from the reaction medium as said water forms. The method according to the invention can operate under conditions for which the reagents are not in excess, thus minimising the size and the energy of the equipment for separating/recycling the streams generated during the purification of the reaction medium.

IPC 8 full level

C07C 67/56 (2006.01); **C07C 67/08** (2006.01); **C07C 69/54** (2006.01)

CPC (source: EP KR US)

B01D 71/027 (2013.01 - US); **B01J 19/2475** (2013.01 - US); **C07C 67/08** (2013.01 - EP KR US); **C07C 67/54** (2013.01 - KR); **C07C 67/56** (2013.01 - EP US); **C07C 67/58** (2013.01 - KR); **C07C 69/54** (2013.01 - KR); **C07C 69/54** (2013.01 - US); **Y02P 20/582** (2015.11 - EP US)

C-Set (source: EP US)

1. **C07C 67/08 + C07C 69/54**
2. **C07C 67/56 + C07C 69/54**

Citation (examination)

DÂNIA S. M. CONSTANTINO ET AL: "Synthesis of butyl acrylate in a fixed-bed adsorptive reactor over Amberlyst 15", AICHE JOURNAL, vol. 61, no. 4, 1 April 2015 (2015-04-01), US, pages 1263 - 1274, XP055736726, ISSN: 0001-1541, DOI: 10.1002/aic.14701

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 2017153653 A1 20170914; BR 112018015652 A2 20181226; BR 112018015652 B1 20220405; CN 108713011 A 20181026; EP 3426628 A1 20190116; FR 3048697 A1 20170915; FR 3048697 B1 20190927; JP 2019507790 A 20190322; JP 6909800 B2 20210728; KR 102644405 B1 20240306; KR 20180118144 A 20181030; TW 201800382 A 20180101; US 10676421 B2 20200609; US 2019071384 A1 20190307

DOCDB simple family (application)

FR 2017050331 W 20170214; BR 112018015652 A 20170214; CN 201780015909 A 20170214; EP 17709153 A 20170214; FR 1652001 A 20160310; JP 2018547483 A 20170214; KR 20187025849 A 20170214; TW 106106532 A 20170224; US 201716081060 A 20170214