

Title (en)
METHOD FOR THE PRODUCTION OF BIO-SOURCED ACRYLIC ACID

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ACRYLSÄURE AUS BIOLOGISCHER QUELLE

Title (fr)
PROCEDE DE PRODUCTION D'ACIDE ACRYLIQUE BIO-SOURCE

Publication
EP 3107885 A1 20161228 (FR)

Application
EP 15709257 A 20150216

Priority
• FR 1451315 A 20140219
• FR 2015050371 W 20150216

Abstract (en)
[origin: WO2015124856A1] The present invention relates to the manufacture of bio-sourced acrylic acid using glycerol as a raw material, the term bio-sourced acid indicating that the acrylic acid is essentially produced from a carbon source of natural origin. The present invention concerns, more particularly, a method for recovery and purification of said acid in a compact facility without the use of an organic solvent, as well as a method for production of acrylic acid from glycerol which includes this recovery and purification method. The method is based in particular on obtaining a gaseous reaction effluent of raw acrylic acid that minimizes the water to acrylic acid mass ratio, enabling upstream resolution of the essential problems posed by the presence of water and impurities in a solvent-free recovery and purification method.

IPC 8 full level
C07C 45/52 (2006.01); **C07C 47/22** (2006.01); **C07C 51/44** (2006.01); **C07C 51/487** (2006.01); **C07C 57/04** (2006.01)

CPC (source: EP KR US)
C07C 45/52 (2013.01 - EP KR US); **C07C 47/22** (2013.01 - KR); **C07C 51/252** (2013.01 - EP KR US); **C07C 51/43** (2013.01 - US); **C07C 51/44** (2013.01 - EP KR US); **C07C 51/487** (2013.01 - EP KR US); **C07C 57/04** (2013.01 - KR); **C07C 67/08** (2013.01 - EP KR US); **C07C 67/54** (2013.01 - EP KR US); **C07C 67/58** (2013.01 - EP KR US); **C07C 69/54** (2013.01 - KR); **Y02P 20/582** (2015.11 - EP US)

Citation (search report)
See references of WO 2015124856A1

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)
FR 3017617 A1 20150821; **FR 3017617 B1 20160212**; CN 105980343 A 20160928; CN 105980343 B 20180518; EP 3107885 A1 20161228; JP 2017509604 A 20170406; KR 20160124194 A 20161026; US 10029975 B2 20180724; US 2017166507 A1 20170615; WO 2015124856 A1 20150827

DOCDB simple family (application)
FR 1451315 A 20140219; CN 201580009244 A 20150216; EP 15709257 A 20150216; FR 2015050371 W 20150216; JP 2016552898 A 20150216; KR 20167025737 A 20150216; US 201515118134 A 20150216