

Title (en)

METHOD FOR PURIFYING METHYL METHACRYLATE OF LOW-BOILING COMPONENTS

Title (de)

VERFAHREN ZUR AUFREINIGUNG VON METHYLMETHACRYLAT VON LEICHTSIEDENDEN KOMPONENTEN

Title (fr)

PROCÉDÉ PERMETTANT D'ÉLIMINER LE MÉTHACRYLATE DE MÉTHYLE DE CONSTITUANTS À BAS POINT D'ÉBULLITION

Publication

EP 4034519 A1 20220803 (DE)

Application

EP 20767827 A 20200910

Priority

- EP 19199547 A 20190925
- EP 2020075351 W 20200910

Abstract (en)

[origin: WO2021058293A1] The present invention relates to a novel process for purifying, by distillation, methyl methacrylate impurified with low-boiling components, said MMA having been produced using oxidative esterification and, as the crude product, contains propionic acid methyl ester (PRAME), isobutyric acid methyl ester (IBSME) and methacrolein (MAL) as the low-boiling components. The process can be used on MMA that has been produced from C2-production-based methacrolein and that contains the aforementioned low-boiling components. However, in theory, the process can also be used on MMA that has been produced from C4-production-based methacrolein and that contains PRAME and MAL, but no significant quantity of IBSME.

IPC 8 full level

C07C 45/75 (2006.01); **C07C 47/22** (2006.01); **C07C 67/39** (2006.01); **C07C 67/54** (2006.01); **C07C 67/58** (2006.01); **C07C 69/24** (2006.01); **C07C 69/54** (2006.01)

CPC (source: CN EP US)

B01D 3/14 (2013.01 - US); **C07C 45/75** (2013.01 - CN EP US); **C07C 67/39** (2013.01 - CN EP); **C07C 67/44** (2013.01 - US); **C07C 67/48** (2013.01 - CN); **C07C 67/54** (2013.01 - CN EP US); **C07C 67/58** (2013.01 - CN EP); **C07C 67/60** (2013.01 - CN US); **C07C 67/62** (2013.01 - US)

C-Set (source: CN EP)

CN

1. **C07C 67/39 + C07C 69/54**
2. **C07C 67/54 + C07C 69/54**
3. **C07C 67/60 + C07C 69/54**
4. **C07C 67/48 + C07C 69/54**
5. **C07C 67/58 + C07C 69/54**
6. **C07C 45/75 + C07C 47/22**
7. **C07C 67/39 + C07C 69/24**

EP

1. **C07C 45/75 + C07C 47/22**
2. **C07C 67/54 + C07C 69/54**
3. **C07C 67/58 + C07C 69/54**
4. **C07C 67/39 + C07C 69/54**
5. **C07C 67/39 + C07C 69/24**

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)

EP 3798202 A1 20210331; CN 114450264 A 20220506; EP 4034519 A1 20220803; JP 2022549485 A 20221125; TW 202124351 A 20210701; US 11731931 B2 20230822; US 2022388942 A1 20221208; WO 2021058293 A1 20210401

DOCDB simple family (application)

EP 19199547 A 20190925; CN 202080067155 A 20200910; EP 2020075351 W 20200910; EP 20767827 A 20200910; JP 2022519041 A 20200910; TW 109132743 A 20200922; US 202017754096 A 20200910