

Title (en)

PROCESS FOR PREPARING MIXED POLYOL CARBOXYLIC ACID ESTERS

Title (de)

VERFAHREN ZUR HERSTELLUNG GEMISCHTER POLYOL-CARBONSÄUREESTER

Title (fr)

PROCÉDÉ DE PRÉPARATION D'ESTERS D'ACIDE CARBOXYLIQUE DE POLYOL MÉLANGÉS

Publication

**EP 4288407 A1 20231213 (DE)**

Application

**EP 22710292 A 20220127**

Priority

- DE 102021102508 A 20210203
- EP 2022051905 W 20220127

Abstract (en)

[origin: WO2022167318A1] The present invention relates to a process for preparing mixed polyol carboxylic acid esters having a molecular weight of greater than or equal to 200 g/mol and smaller than or equal to 1000 g/mol, wherein a polyol is reacted in an at least two-stage reaction with various monocarboxylic acids in the form of monocarboxylic acids or monocarboxylic acid anhydrides, wherein the different monocarboxylic acids are reacted with the polyol in the order of their reactivity in the esterification reaction, starting with the lowest reactivity, wherein the monocarboxylic acids having the lower reactivity are reacted at least partially as monocarboxylic acid anhydride with the polyol and the monocarboxylic acid having the highest reactivity is reacted subsequently as monocarboxylic acid with the polyol. The present invention also relates to the use of the process for preparing mixed polyol esters.

IPC 8 full level

**C07C 67/08** (2006.01); **C07C 69/33** (2006.01)

CPC (source: EP KR US)

**C07C 67/08** (2013.01 - EP KR US); **C07C 69/33** (2013.01 - KR)

C-Set (source: EP)

**C07C 67/08** + **C07C 69/33**

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**DE 102021102508 A1 20220804**; CN 116724019 A 20230908; EP 4288407 A1 20231213; JP 2024505959 A 20240208; KR 20230140565 A 20231006; TW 202231618 A 20220816; US 2024116846 A1 20240411; WO 2022167318 A1 20220811

DOCDB simple family (application)

**DE 102021102508 A 20210203**; CN 202280010745 A 20220127; EP 2022051905 W 20220127; EP 22710292 A 20220127; JP 2023546416 A 20220127; KR 20237029991 A 20220127; TW 111103793 A 20220128; US 202218274414 A 20220127