

Title (en)

METHOD FOR DEPOLYMERISING A POLYESTER FILLER COMPRISING A PRE-MIXING STAGE OF THE FILLER

Title (de)

VERFAHREN ZUR DEPOLYMERISATION EINES POLYESTERFÜLLSTOFFS MIT EINER VORMISCHUNGSSTUFE DES FÜLLSTOFFS

Title (fr)

PROCÉDÉ DE DÉPOLYMÉRISATION D'UNE CHARGE POLYESTER COMPRENANT UN PRE-MELANGE ETAGE DE LA CHARGE

Publication

EP 4355818 A1 20240424 (FR)

Application

EP 22732512 A 20220607

Priority

- FR 2106437 A 20210617
- EP 2022065426 W 20220607

Abstract (en)

[origin: WO2022263235A1] The invention relates to a method for depolymerising a polyester filler, comprising: a) conditioning the filler by implementing a means for at least partially melting the filler and at least one mixer, which are supplied by the filler, and a diol stream, with a weight ratio of diol stream to filler of between 0.01 and 6.00, the volumetric dilution level of diol in each mixer being between 3% and 70%; b) depolymerising the polyester filler at 150-300°C, the weight ratio of diol to diester in step b) being adjusted to between 0.3 and 8.0; c) optionally separating the diol at a temperature of between 60 and 250°C and at a lower pressure than that of step b).

IPC 8 full level

C08J 11/24 (2006.01); **C07C 67/48** (2006.01); **C07C 69/82** (2006.01)

CPC (source: EP IL KR)

C07C 67/03 (2013.01 - EP IL KR); **C07C 69/82** (2013.01 - IL); **C08J 11/24** (2013.01 - EP IL KR); **C08J 2367/02** (2013.01 - EP IL KR); **Y02W 30/62** (2015.05 - EP KR)

C-Set (source: EP)

C07C 67/03 + **C07C 69/82**

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)

WO 2022263235 A1 20221222; AU 2022292037 A1 20240125; BR 112023025894 A2 20240227; CA 3220238 A1 20221222; CN 117730116 A 20240319; EP 4355818 A1 20240424; FR 3124187 A1 20221223; FR 3124187 B1 20240412; IL 309282 A 20240201; KR 20240046857 A 20240411; TW 202319464 A 20230516

DOCDB simple family (application)

EP 2022065426 W 20220607; AU 2022292037 A 20220607; BR 112023025894 A 20220607; CA 3220238 A 20220607; CN 202280043032 A 20220607; EP 22732512 A 20220607; FR 2106437 A 20210617; IL 30928223 A 20231211; KR 20237044943 A 20220607; TW 111122615 A 20220617