

Title (en)

METHOD FOR TREATING WASTE PLASTICS BY POLYMER DISSOLUTION AND ADSORPTION PURIFICATION

Title (de)

VERFAHREN ZUR BEHANDLUNG VON KUNSTSTOFFABFÄLLEN DURCH REINIGUNG DURCH AUFLÖSUNG UND ADSORPTION VON POLYMEREN

Title (fr)

PROCEDE DE TRAITEMENT DE PLASTIQUES USAGES PAR DISSOLUTION DES POLYMERES ET PURIFICATION PAR ADSORPTION

Publication

**EP 4259405 A1 20231018 (FR)**

Application

**EP 21831235 A 20211202**

Priority

- FR 2013161 A 20201214
- EP 2021083873 W 20211202

Abstract (en)

[origin: CA3198542A1] Disclosed is a method for treating a plastic feedstock, the method including: (a) a dissolution step comprising bringing the feedstock into contact with a dissolution solvent, at a dissolution temperature between 100°C and 300°C and a dissolution pressure of between 1 and 20.0 MPa, the dissolution solvent having a boiling point between -50°C and 250°C, so as to obtain a crude polymer solution; (b) an adsorption step of bringing the crude polymer solution into contact with an absorbent, at a temperature of between 100 and 300°C and a pressure of between 1.0 and 20.0 MPa, so as to obtain a refined polymer solution; then (c) a step of recovering the polymers, so as to obtain at least a solvent fraction and a fraction of purified polymers.

IPC 8 full level

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CPC (source: EP IL KR US)

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Designated contracting state (EPC)

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