

Title (en)

METHOD FOR TREATING WASTE PLASTICS BY POLYMER DISSOLUTION AND PURIFICATION BY EXTRACTION

Title (de)

VERFAHREN ZUR BEHANDLUNG VON KUNSTSTOFFABFÄLLEN DURCH AUFLÖSEN UND REINIGEN VON POLYMEREN DURCH EXTRAKTION

Title (fr)

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

Publication

EP 4259406 A1 20231018 (FR)

Application

EP 21834738 A 20211202

Priority

- FR 2013159 A 20201214
- EP 2021083869 W 20211202

Abstract (en)

[origin: CA3198552A1] Disclosed is a method for treating a plastic feedstock, the method including: (a) a dissolution step comprising bringing the plastic feedstock into contact with a dissolution solvent, at a dissolution temperature between 100°C and 300°C and a dissolution pressure between 1 and 20.0 MPa abs. so as to dissolve at least a portion of the polymers of the plastic feedstock and obtain a crude polymer solution; (b) an extraction step of bringing the crude polymer solution into contact with an extraction solvent, at a temperature between 100°C and 300°C, a pressure between 1 and 20.0 MPa abs. and a mass ratio of the mass flow rate of the extraction solvent and the mass flow rate of the crude polymer solution between 0.05 and 20.0, to obtain an extracted polymer solution and a spent solvent; then (c) a step of recovering the polymers, so as to obtain a solvent fraction and a purified polymer fraction.

IPC 8 full level

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CPC (source: EP IL KR)

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