

Title (en)

PROCESS FOR RECOVERING STARTING MATERIALS FROM MIXED TEXTILE WASTES

Title (de)

VERFAHREN ZUR RÜCKGEWINNUNG VON AUSGANGSSTOFFEN AUS MISCHTEXTILABFÄLLEN

Title (fr)

PROCÉDÉ DE RÉCUPÉRATION DE MATIÈRES PREMIÈRES À PARTIR DE DÉCHETS TEXTILES MIXTES

Publication

**EP 4073156 A1 20221019 (DE)**

Application

**EP 20816228 A 20201203**

Priority

- EP 19215960 A 20191213
- EP 2020084540 W 20201203

Abstract (en)

[origin: WO2021115931A1] Disclosed is a process for recovering raw materials from mixed textile wastes which comprises the following steps in the specified sequence: a) providing a mixed textile waste containing at least one cellulose component and at least one polyester component, b) treating the mixed textile waste in an aqueous treatment solution to de-polymerize the polyester component and dissolve it in the treatment solution, c) separating the cellulose component from the treatment solution and recovering a cellulose raw material, d) filtering the treatment solution to remove foreign substances, in particular dyes and metal ions, from the treatment solution and e) precipitating terephthalic acid from the treatment solution, separating the precipitated terephthalic acid and recovering a terephthalic acid-comprising polyester raw material. In order to allow recovery of raw materials in the context of the recited process in higher purity it is proposed that the filtering of the treatment solution in step d) comprises at least one filtering through an adsorbing filter medium.

IPC 8 full level

**C08J 11/14** (2006.01); **C08L 67/00** (2006.01); **C08L 101/00** (2006.01)

CPC (source: EP KR US)

**C08B 16/00** (2013.01 - US); **C08J 11/06** (2013.01 - US); **C08J 11/14** (2013.01 - EP KR); **C08J 11/16** (2013.01 - US); **C08J 2301/00** (2013.01 - EP KR US); **C08J 2367/00** (2013.01 - US); **C08J 2467/00** (2013.01 - EP KR); **Y02W 30/62** (2015.05 - EP KR); **Y02W 30/66** (2015.05 - EP)

Citation (search report)

See references of WO 2021115931A1

Designated contracting state (EPC)

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DOCDB simple family (application)

**EP 2020084540 W 20201203**; BR 112022008537 A 20201203; CN 202080085662 A 20201203; EP 20816228 A 20201203; JP 2022535790 A 20201203; KR 20227022303 A 20201203; US 202017784508 A 20201203; ZA 202205155 A 20220510