



(51) International Patent Classification:

C07C 63/28 (2006.01) C08J 11/16 (2006.01)
C08J 11/24 (2006.01) C08J 11/22 (2006.01)

(21) International Application Number:

PCT/IB2022/052253

(22) International Filing Date:

14 March 2022 (14.03.2022)

(25) Filing Language:

Italian

(26) Publication Language:

English

(30) Priority Data:

102021000006077 15 March 2021 (15.03.2021) IT

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,

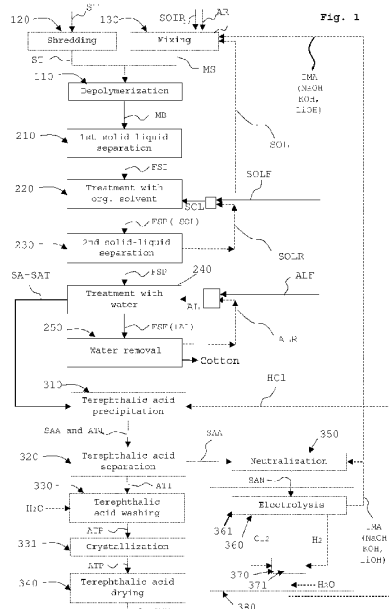
HR, HU, ID, IL, IN, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(54) Title: METHOD FOR THE RECYCLING OF A TEXTILE WASTE COMPRISING A CELLULOSIC COMPONENT AND A POLYESTER COMPONENT



(57) Abstract: The present invention relates to a method for the recycling of a textile waste (ST) comprising a cellulosic component and a polyester component, comprising the following steps: - a depolymerization step (110), comprising submitting the textile waste (ST) to a depolymerization reaction of the polyester component by basic hydrolysis by means of a solvolytic mixture (MS) comprising an alkali metal hydroxide (IMA) and at least one water-soluble organic reaction solvent (SOIR) until obtaining a biphasic mixture (MB) comprising an initial solid phase (ESI), containing a terephthalic acid salt (SAT) and cellulosic fibres, and an initial liquid phase (ELI), containing the water-soluble organic reaction solvent (SOIR); - a first step of solid-liquid separation (210), comprising the removal of at least a part of the initial liquid phase (ELI) from the biphasic mixture (MB); - a step of treatment with organic solvent (220), wherein said initial solid phase (ESI), following the first step of solid-liquid separation (210), is treated with an organic washing solvent (SOL) until removing, from the initial solid phase (ESI), one or more possible contaminants present therein and obtaining a solid purified phase (ESP) containing the terephthalic acid salt (SAT) and the cellulosic fibres; - a second step of solid-liquid separation (230), wherein the solid purified phase (ESP) is separated from the organic washing solvent (SOL) and from the one or more possible contaminants dissolved therein; - a step of treatment with water (240), comprising bringing the solid purified phase (ESP) into contact with washing water (AL) until solubilizing the terephthalic acid salt (SAT) contained therein and obtaining, by the removal of the later, a final solid phase (FSF) comprising said cellulosic fibres.