

Title (en)

IMPROVED METHOD FOR RECYCLING PET BY ALCOHOLYSIS

Title (de)

VERBESSERTES VERFAHREN ZUR WIEDERVERWERTUNG VON PET DURCH ALKOHOLYSE

Title (fr)

PROCEDE AMELIORE DE RECYCLAGE DE PET PAR ALCOOLYSE

Publication

**EP 4251603 A1 20231004 (FR)**

Application

**EP 21823983 A 20211124**

Priority

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Abstract (en)

[origin: CA3199380A1] The present invention relates to the field of recycling PET-type plastics commonly used for the manufacture of disposable plastic bottles, food trays, textiles, etc. More specifically, it relates to a method for converting PET into dimethyl terephthalate (DMT) in a few hours (less than 5 hours) by means of a complete reaction resulting in a product free of impurities. The depolymerisation step is carried out in the presence of a monoalcohol as well as an organic base with a guanidine or amidine unit, and a second base which may be either an inorganic base or an ether oxide. These two bases are present in catalytic amounts relative to the amount of PET to be treated.

IPC 8 full level

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C-Set (source: EP)

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