

Title (en)

PROCESS FOR JOINT RECYCLING OF COMPOSITE ITEMS BASED ON A THERMOPLASTIC POLYMER MATRIX

Title (de)

VERFAHREN ZUM GEMEINSAMEN RECYCLING VON VERBUNDGEGENSTÄNDEN BASIEREND AUF EINER THERMOPLASTISCHEN POLYMERMATRIX

Title (fr)

PROCEDE DE RECYCLAGE CONJOINT D'ARTICLES COMPOSITES A BASE DE MATRICE DE POLYMERE THERMOPLASTIQUE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2021058923A2] The invention relates to a process for recycling (100) a first item (10) to be recycled, comprising a composite material based on a fibrous reinforcement and on a thermoplastic, preferably (meth)acrylic, polymer matrix, characterized in that said recycling process comprises the following steps: - introducing (130) the first item (10) into a system (1) suitable for the recycling of a thermoplastic polymer, - introducing (140), into the system (1) suitable for the recycling of a thermoplastic polymer, a second item (20) to be recycled, comprising a thermoplastic polymer resin, and not comprising a fibrous reinforcement, - heating (150) the items (10, 20) to be recycled at a given temperature, in said system (1) suitable for the recycling of a thermoplastic polymer, in order to depolymerize the thermoplastic, preferably (meth)acrylic, polymers, and to form base monomers of said thermoplastic polymers, and - recovering (160) the constituent base monomers of said thermoplastic polymers.

IPC 8 full level

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