

Title (en)

METHOD AND SYSTEM FOR TRANSFERRING PLASTIC WASTE INTO A FUEL HAVING PROPERTIES OF DIESEL/HEATING OIL

Title (de)

VERFAHREN UND ANLAGE ZUM ÜBERFÜHREN VON KUNSTSTOFFABFÄLLEN IN EINEN BRENNSTOFF MIT EIGENSCHAFTEN VON DIESEL/HEIZÖL

Title (fr)

PROCÉDÉ ET INSTALLATION POUR LA TRANSFORMATION DES DÉCHETS DE MATIÈRES PLASTIQUES EN UN COMBUSTIBLE AYANT LES PROPRIÉTÉS DU DIESEL/DU FIOUL

Publication

EP 3247775 A1 20171129 (DE)

Application

EP 15707270 A 20150119

Priority

EP 2015000081 W 20150119

Abstract (en)

[origin: WO2016116114A1] The invention relates to a method for recovering hydrocarbons from plastic wastes, in particular polyolefin-rich waste, by means of purely thermolytic cracking without the use of catalysts, comprising melting the plastic waste in two heating devices (3) and (4), wherein a recycle stream derived from the cracking reactor (5) and purified in a separator system (8, 9) is admixed with the molten plastic waste from the heating device (3). The mixed plastic stream is further heated in the second heating device (4), and from there is guided into the cracking reactor (5), where the plastic materials are cracked, and by means of subsequent distillation are separated into diesel and low boilers. A special entry system allows the prior separation of water and acidic gases, and the saving of inert gas. The invention further relates to a system for carrying out the method.

IPC 8 full level

C10G 1/10 (2006.01); **C10G 9/40** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2016116114A1

Designated contracting state (EPC)

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WO 2016116114 A1 20160728; **WO 2016116114 A8 20170316**; EP 3247775 A1 20171129; EP 3247775 B1 20200708; ES 2822597 T3 20210504; PL 3247775 T3 20201214; US 2018010050 A1 20180111; US 2023059944 A1 20230223

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