Title (en)

THERMAL DE-POLYMERIZATION PROCESS OF PLASTIC WASTE MATERIALS

Title (de)

THERMISCHES DEPOLYMERISIERUNGSVERFAHREN FÜR KUNSTSTOFFABFÄLLE

Title (fr)

PROCÉDÉ DE DÉPOLYMÉRISATION THERMIQUE DE MATÉRIAUX DE DÉCHETS PLASTIQUES

Publication

EP 2734579 A4 20150225 (EN)

Application

EP 12817287 A 20120723

Priority

- MY PI2011003443 A 20110722
- MY 2012000212 W 20120723

Abstract (en)

[origin: WO2013015676A2] The present invention relates to a process for producing liquid transportation fuel (15) based on plastic waste materials (10), comprising the step of: providing (S101) plastic waste materials (10) in molten form; de-polymerizing (S103) molten plastic waste materials (10) into a reaction chamber using a limestone catalyst (20) at a temperature ranging 420°C to 450°C under normal atmospheric pressure condition of 1 Bar; and introducing (S106) gaseous de- polymerized products (25) to a distillation unit thereby allows the gaseous de-polymerized products (25) to be fractionally distilled and condensed into liquid transportation fuels (15).

IPC 8 full level

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CPC (source: EP US)

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C10G 2300/1003 (2013.01 - EP US); C10G 2300/201 (2013.01 - EP US); C10G 2300/202 (2013.01 - EP US); C10G 2300/307 (2013.01 - EP US);
C10G 2300/4006 (2013.01 - EP US); C10G 2300/4012 (2013.01 - EP US); C10G 2400/04 (2013.01 - EP US); Y02W 30/62 (2015.05 - EP US)

Citation (search report)

- [X] US 2011089081 A1 20110421 - SRINAKRUANG JUMLUCK [TH]
- [X] US 2007173673 A1 20070726 - FUJIMOTO KAORU [JP], et al
- See references of WO 2013015676A2

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DOCDB simple family (publication)

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