

Title (en)
DEVICE AND METHOD FOR RECOVERING FRACTIONAL HYDROCARBONS FROM RECYCLED PLASTIC FRACTIONS AND/OR FROM OILY RESIDUES

Title (de)
VORRICHTUNG UND VERFAHREN ZUM GEWINNEN VON FRAKTIONIERTEN KOHLENWASSERSTOFFEN AUS KUNSTSTOFFWERTSTOFFEN UND/ODER AUS ÖLHALTIGEN RESTSTOFFEN

Title (fr)
DISPOSITIF ET PROCEDE D'EXTRACTION D'HYDROCARBURES FRACTIONNES A PARTIR DE MATERIAUX SYNTHETIQUES ET/OU DE RESIDUS HUILEUX

Publication
EP 1745115 A1 20070124 (DE)

Application
EP 05701145 A 20050124

Priority

- EP 2005000661 W 20050124
- DE 102004003667 A 20040124
- EP 2005000504 W 20050120
- EP 05701145 A 20050124

Abstract (en)
[origin: WO2005071043A1] The invention relates to a method for recovering fractional hydrocarbons from recycled plastic fractions, which are sorted according to type and compacted under the exclusion of air using a feed system (1, 2, 3, 4), the compacted mass being supplied to a fusion container (7), where it is heated. The mass is separated into a first liquid phase, a first gas phase and a residual fraction, the liquid phase and the first gas phase are then transported to an evaporation container (20), in which a second liquid phase and a second gas phase are produced by the application of heat. The second liquid phase is transferred to a secondary heater (23) and heated further to produce a third gas phase. The second gas phase and the third gas phase are then supplied to a cracking tower (27), in which further cracking of the long-chained hydrocarbons occurs and short-chained hydrocarbons are produced. The oil gas is supplied to a primary condenser (30), in which it is condensed to liquid oil, the latter constituting the target product.

IPC 8 full level
C10G 1/10 (2006.01); **C10G 1/00** (2006.01)

CPC (source: EP)
C10G 1/002 (2013.01); **C10G 1/006** (2013.01); **C10G 1/10** (2013.01)

Citation (search report)
See references of WO 2005071043A1

Cited by
DE102013205996A1; WO2014161767A2; US10494572B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005071043 A1 20050804; AT E491771 T1 20110115; CA 2558347 A1 20050804; CA 2558347 C 20130730; DE 502005010684 D1 20110127; DK 1745115 T3 20110404; EP 1745115 A1 20070124; EP 1745115 B1 20101215; PL 1745115 T3 20110531; PT 1745115 E 20110323; SI 1745115 T1 20110531

DOCDB simple family (application)
EP 2005000661 W 20050124; AT 05701145 T 20050124; CA 2558347 A 20050124; DE 502005010684 T 20050124; DK 05701145 T 20050124; EP 05701145 A 20050124; PL 05701145 T 20050124; PT 05701145 T 20050124; SI 200531238 T 20050124