

Title (en)

METHOD FOR HIGH-TEMPERATURE SHORT-TIME DISTILLATION OF RESIDUAL OILS

Title (de)

VERFAHREN ZUR HOCHTEMPERATUR-KURZZEIT-DESTILLATION VON RÜCKSTANDSÖLEN

Title (fr)

PROCEDE DE DISTILLATION DE COURTE DUREE A TEMPERATURE ELEVEE D'HUILES RESIDUELLES

Publication

EP 1009785 A1 20000621 (DE)

Application

EP 98932111 A 19980603

Priority

- DE 19724074 A 19970607
- EP 9803319 W 19980603

Abstract (en)

[origin: US6413415B1] High temperature flash distillation, for treating residual oils originating from crude oil refining, natural bitumen and/or tar sands, comprises feeding the oil to a mixer with granular hot coke, which serves as a thermal transfer medium. In mixing, 60-90% of the oil is vaporized. The non-vaporized fraction includes metal-containing asphaltenes. This fraction is further converted in the mixer, to oil vapor, gas and coke. Gases and vapor are withdrawn from the mixer, separately from the coke. The vapor phase is cooled and condensed to produce product oil. The gas itself is a further product. The coke is reheated and recycled to the mixer as the thermal transfer medium.

IPC 1-7

C10G 9/28

IPC 8 full level

C10G 7/00 (2006.01); **C10G 9/28** (2006.01); **C10G 31/06** (2006.01)

CPC (source: EP US)

C10G 7/00 (2013.01 - EP US); **C10G 9/28** (2013.01 - EP US); **C10G 31/06** (2013.01 - EP US)

Designated contracting state (EPC)

AT DE ES FR GB NL

DOCDB simple family (publication)

US 6413415 B1 20020702; AT E212048 T1 20020215; AU 8212598 A 19981221; CA 2293392 A1 19981210; CA 2293392 C 20050809; DE 19724074 A1 19981210; DE 19724074 C2 20000113; DE 59802658 D1 20020221; EP 1009785 A1 20000621; EP 1009785 B1 20020116; ES 2172160 T3 20020916; JP 2002503273 A 20020129; JP 4111550 B2 20080702; WO 9855564 A1 19981210

DOCDB simple family (application)

US 44516300 A 20000103; AT 98932111 T 19980603; AU 8212598 A 19980603; CA 2293392 A 19980603; DE 19724074 A 19970607; DE 59802658 T 19980603; EP 9803319 W 19980603; EP 98932111 A 19980603; ES 98932111 T 19980603; JP 50150599 A 19980603