Title (en)

PROCESS AND DEVICE FOR GENERATING MIDDLE DISTILLATE FROM HYDROCARBONACEOUS ENERGY SOURCES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG VON MITTELDESTILLAT AUS KOHLENWASSERSTOFFHALTIGEN ENERGIETRÄGERN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE PRODUCTION DE DISTILLAT MOYEN À PARTIR DE PORTEURS D'ÉNERGIE RENFERMANT DES HYDROCARBURES

Publication

EP 2227438 A1 20100915 (DE)

Application

EP 08869687 A 20081222

Priority

• EP 2008010990 W 20081222
• DE 102008003209 A 20080105

Abstract (en)

[origin: CA2709755A1] The invention relates to a process for generating middle distillate (2) from hydrocarbonaceous energy sources (1), wherein at least one hydrocarbonaceous energy source (1), if appropriate at least one catalyst (1a) and if appropriate at least one filler (1b) are fed as input material (12) to a reactor (11) which contains a process oil mixture (54), wherein a process oil mixed stream (56) is removed from the reactor (11) and heated to a process temperature between 150°C and 400°C, preferably between 350°C and 380°C, wherein the heated process oil mixed stream (67, 68) is fed to a degasser (37), wherein vaporous middle distillate (2) is separated in the degasser (37) from the heated process oil mixed stream (67, 68) and wherein a process oil mixed stream (55) which is expanded from the vaporous middle distillate (2) is recirculated from the degasser (37) to the process oil mixture (54) which is present in the reactor (11).

IPC 8 full level

C01G 1/02 (2006.01); **C01G 1/04** (2006.01); **C01G 1/08** (2006.01)

CPC (source: EP US)

C10G 1/02 (2013.01 - EP US); **C10G 1/04** (2013.01 - EP US); **C10G 1/083** (2013.01 - EP US); C10G 2300/4006 (2013.01 - EP US); C10G 2300/80 (2013.01 - EP US); C10G 2400/04 (2013.01 - EP US)

Citation (search report)

See references of WO 2009086908A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102008003209 B3 20090604; AU 2008346505 A1 20090716; BR PI0820816 A2 20150616; CA 2709755 A1 20090716; CO 6310985 A2 20110822; EP 2227438 A1 20100915; JP 2011511098 A 20110407; MX 2010007385 A 20101110; NZ 585824 A 20111222; RU 2010132854 A 20120210; RU 2470863 C2 20121227; US 2010270209 A1 20101028; WO 2009086908 A1 20090716; ZA 201003672 B 20110831

DOCDB simple family (application)

DE 102008003209 A 20080105; AU 2008346505 A 20081222; BR PI0820816 A 20081222; CA 2709755 A 20081222; CO 10071553 A 20100615; EP 08869687 A 20081222; EP 2008010990 W 20081222; JP 2010541026 A 20081222; MX 2010007385 A 20081222; NZ 58582408 A 20081222; RU 2010132854 A 20081222; US 81010808 A 20081222; ZA 201003672 A 20100524