

Title (en)
PROCESS FOR THE THERMAL CRACKING OF A RESIDUAL HYDROCARBON OIL

Title (de)
VERFAHREN ZUM THERMISCHEN SPALTEN VON RÜCKSTANDSKOHLENWASSERSTOFFÖL

Title (fr)
PROCEDE DE CRAQUAGE THERMIQUE D'UNE HUILE RESIDUELLE D'HYDROCARBURE

Publication
EP 0779916 B1 19981209 (EN)

Application
EP 95932000 A 19950904

Priority

- EP 95932000 A 19950904
- EP 9503504 W 19950904
- EP 94202527 A 19940905

Abstract (en)
[origin: WO9607716A1] Process for the thermal cracking of a residual hydrocarbon oil wherein a final 520 DEG C+ conversion of at least 35 % by weight is attained, which process comprises the steps of: (a) heating the residual hydrocarbon oil feed in a furnace to a temperature in the range of from 400 to 510 DEG C for sufficient time to achieve 30 to 45 % of the final 520 DEG C+ conversion; (b) feeding the partially converted, hot hydrocarbon oil produced in step (a) and a hot hydrogen-containing gas into a soaker, said hydrogen-containing gas having a sufficiently high temperature to maintain the temperature of the hydrocarbon oil in the soaker by means of direct heat exchange at a value in the range of from 420 to 650 DEG C, in which soaker the remainder up to 100 % of the final 520 DEG C+ conversion takes place; and (c) recovering a gaseous fraction containing the hydrogen-containing gas and a cracked residue from the soaker.

IPC 1-7
C10G 69/06

IPC 8 full level
C10G 9/02 (2006.01); **C10G 47/22** (2006.01); **C10G 69/06** (2006.01)

CPC (source: EP)
C10G 69/06 (2013.01)

Designated contracting state (EPC)
BE CH DE DK FR GB IT LI NL SE

DOCDB simple family (publication)
WO 9607716 A1 19960314; AU 3522695 A 19960327; AU 694799 B2 19980730; BR 9508692 A 19980106; CA 2199045 A1 19960314; CA 2199045 C 20070220; CN 1122705 C 20031001; CN 1157006 A 19970813; DE 69506565 D1 19990121; DE 69506565 T2 19990617; DK 0779916 T3 19990719; EP 0779916 A1 19970625; EP 0779916 B1 19981209; FI 119843 B 20090415; FI 970908 A0 19970303; FI 970908 A 19970303; JP 3764480 B2 20060405; JP H10505126 A 19980519; MX 9701616 A 19970628; NO 317941 B1 20050110; NO 970975 D0 19970303; NO 970975 L 19970505; ZA 957400 B 19960417

DOCDB simple family (application)
EP 9503504 W 19950904; AU 3522695 A 19950904; BR 9508692 A 19950904; CA 2199045 A 19950904; CN 95194908 A 19950904; DE 69506565 T 19950904; DK 95932000 T 19950904; EP 95932000 A 19950904; FI 970908 A 19970303; JP 50921696 A 19950904; MX 9701616 A 19950904; NO 970975 A 19970303; ZA 957400 A 19950904