

Title (en)
INTEGRATED HYDROPROCESSING SCHEME WITH SEGREGATED RECYCLE

Title (de)
INTEGRIERTES WASSERSTOFFBEHANDLUNGSSCHEMA MIT GETRENNTEN RECYCLING

Title (fr)
SYSTEME D'HYDROCRAQUAGE INTEGRE A RECYCLAGE SEPRE

Publication
EP 0883664 A4 19991117 (EN)

Application
EP 96934152 A 19961011

Priority
• US 9616231 W 19961011
• US 57829595 A 19951226

Abstract (en)
[origin: WO9723584A1] Petroleum products are refined in an integrated hydroprocessing scheme involving a hydrocracking stage (1) and subsequent dewaxing stage (16). Materials boiling in the middle distillate or lube oil range may be dewaxed. The bottoms streams (12, 34) and optionally other streams from each stage are maintained separately from one another during processing. Dewaxing may occur using either hydroisomerization catalysts or shape-selective catalysts or both in series. One embodiment employs a baffle (14) in the flash zone of a fractionator (13) to separate bottoms streams from each other. Alternatively, the effluent (4) from the hydrocracking stage may be processed separately from the effluent (18) from the dewaxing stage. The bottoms fraction from the dewaxing stage may be recycled back to the hydrocracking stage for further processing or used as lube base stock.

IPC 1-7
C10G 65/12; **C10G 73/38**

IPC 8 full level
B01J 29/40 (2006.01); **C10G 45/64** (2006.01); **C10G 65/12** (2006.01); **C10G 73/38** (2006.01)

CPC (source: EP KR)
C10G 65/12 (2013.01 - EP KR); **C10G 73/38** (2013.01 - KR)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 9723584A1

Cited by
US10227536B2

Designated contracting state (EPC)
DE GB IT NL

DOCDB simple family (publication)
WO 9723584 A1 19970703; CA 2240688 A1 19970703; EP 0883664 A1 19981216; EP 0883664 A4 19991117; JP 3119489 B2 20001218; JP H11508957 A 19990803; KR 100339069 B1 20020827; KR 19990072206 A 19990927

DOCDB simple family (application)
US 9616231 W 19961011; CA 2240688 A 19961011; EP 96934152 A 19961011; JP 52361197 A 19961011; KR 19980704582 A 19980617