

Title (en)

Process for upgrading heavy hydrocarbonaceous oils.

Title (de)

Verfahren zum Verbessern schwerer Kohlenwasserstofföle.

Title (fr)

Procédé pour améliorer les huiles hydrocarbonées lourdes.

Publication

EP 0035864 A2 19810916 (EN)

Application

EP 81300887 A 19810303

Priority

CA 347549 A 19800304

Abstract (en)

The invention relates to a process for the upgrading of heavy, viscous hydrocarbonaceous oils, comprising fractionally distilling said hydrocarbonaceous oil to produce at least one distilled fraction and a residuum without substantially cracking said hydrocarbonaceous oil, contacting said residuum with a liquid hydrogen donor material stream to produce a hydrocracked stream and separating said hydrocracked stream into a gaseous stream and a liquid hydrocracked stream, characterized in that: (a) said liquid hydrocracked stream is fractionally distilled to separate from higher and lower boiling fractions a hydrogen donor precursor stream boiling above a temperature from substantially 180 DEG C to substantially 200 DEG C and below a temperature from substantially 330 DEG C to substantially 350 DEG C, (b) at least part of said hydrogenated hydrogen donor material is recycled as the material which constitutes the entire liquid hydrogen donor material stream to contact said residuum.

IPC 1-7

C10G 47/34

IPC 8 full level

C10G 69/02 (2006.01); **C10G 45/44** (2006.01); **C10G 47/34** (2006.01); **C10G 67/02** (2006.01)

CPC (source: EP)

C10G 47/34 (2013.01); **C10G 2400/06** (2013.01)

Cited by

FR2500469A1; EP0078689A3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0035864 A2 19810916; **EP 0035864 A3 19811007**; **EP 0035864 B1 19850703**; CA 1122914 A 19820504; DE 3171175 D1 19850808; JP H0258316 B2 19901207; JP S56136893 A 19811026; MX 158978 A 19890405; NL 8101051 A 19811001

DOCDB simple family (application)

EP 81300887 A 19810303; CA 347549 A 19800304; DE 3171175 T 19810303; JP 2852881 A 19810302; MX 18620681 A 19810303; NL 8101051 A 19810304