Title (en)

THERMOCHEMICAL REFORMING PROCESS AND PLANT FOR ULTRA HEAVY CRUDE AND TAR

Publication

EP 0143626 B1 19910227 (EN)

Application

EP 84308155 A 19841123

Priority

GB 8331535 A 19831125

Abstract (en)

[origin: EP0143626A2] In a process and plant for the treatment of heavy and ultra-heavy petroleum crudes and tars, the crude is extracted from the crude-bearing formation or mineral sand run by means of hot flue gases and hydrogen donor solvent. After separation from solid mineral content, the extracted crude is hydrogenated and subjected to multi-stage fractionation, to obtain a light pipe-line quality product. The vapour phase from the final fractionation stage is condensed to provide the solvent for extraction. The liquid phases of the fractionation stages preceding the last are recycled to a thermochemical high temperature reformer in which reforming of the hydrocarbon stream with deposition of coke takes place under the heat of combustion gases from a high temperature high pressure furnace, which combustion gases subsequently provide the flue gases for the extraction stage. In the hydrogenator, the extracted crude is reacted with the reformed hydrocarbon stream and hydrogen generated in a water gas reaction by the passage of steam over the high temperature deposited coke.

IPC 1-7

C10G 1/00

IPC 8 full level

C10G 1/00 (2006.01)

CPC (source: EP)

C10G 1/002 (2013.01)

Designated contracting state (EPC)

BE DE FR GB IT LU NL

DOCDB simple family (publication)

EP 0143626 A2 19850605; **EP 0143626 A3 19861120**; **EP 0143626 B1 19910227**; DE 3484176 D1 19910404; GB 8331535 D0 19840104; JP S60120789 A 19850628

DOCDB simple family (application)

EP 84308155 A 19841123; DE 3484176 T 19841123; GB 8331535 A 19831125; JP 18723184 A 19840905