

Title (en)
RECOVERY AND REFORMING OF ULTRA HEAVY TARS AND OIL DEPOSITS

Publication
EP 0144203 B1 19910227 (EN)

Application
EP 84308156 A 19841123

Priority
GB 8331534 A 19831125

Abstract (en)
[origin: EP0144203A2] A process is provided for the recovery from petroleum-bearing formations of ultra-heavy crudes and tars. A 'daisy' well is employed with a main central bore surrounded by an array of slant bores. Hydrogen donor solvent is injected under pressure into the formation via the central bore and high temperature flue gases are injected at higher pressure via the slant bores. Dissolved and liquefied hydrocarbons are recovered together with solvent by gas lift in the central bore. The recovered hydrocarbons are reformed by a thermochemical reforming plant adjacent the well-head to obtain a pipe-line quality product. The plant includes a high temperature high pressure furnace from the exhaust of which the hot flue gases are obtained, and output fractionation stages from which the solvent is recovered.

IPC 1-7
E21B 43/12; **E21B 43/16**; **E21B 43/24**; **E21B 43/30**; **E21B 43/40**

IPC 8 full level
E21B 43/12 (2006.01); **E21B 43/16** (2006.01); **E21B 43/24** (2006.01); **E21B 43/30** (2006.01); **E21B 43/40** (2006.01)

CPC (source: EP)
E21B 43/121 (2013.01); **E21B 43/16** (2013.01); **E21B 43/24** (2013.01); **E21B 43/305** (2013.01); **E21B 43/40** (2013.01)

Cited by
RU2510455C2; EP2233689A1; GB2425550A; AU2006200466B2; GB2425550B; US11142681B2; US11261725B2; WO2009134643A3; US10487636B2; US11002123B2; US8091636B2; US8820420B2

Designated contracting state (EPC)
BE DE FR GB IT LU NL

DOCDB simple family (publication)
EP 0144203 A2 19850612; **EP 0144203 A3 19870520**; **EP 0144203 B1 19910227**; DE 3484177 D1 19910404; GB 8331534 D0 19840104

DOCDB simple family (application)
EP 84308156 A 19841123; DE 3484177 T 19841123; GB 8331534 A 19831125