

Title (en)

METHOD AND DEVICE FOR THE IN-SITU EXTRACTION OF A HYDROCARBON-CONTAINING SUBSTANCE, WHILE REDUCING THE VISCOSITY THEREOF, FROM AN UNDERGROUND DEPOSIT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR IN-SITU-GEWINNUNG EINER KOHLENWASSERSTOFFHALTIGEN SUBSTANZ UNTER HERABSETZUNG DEREN VISKOSITÄT AUS EINER UNTERIRDISCHEN LAGERSTÄTTE

Title (fr)

PROCÉDÉ ET DISPOSITIF D'EXTRACTION IN SITU D'UN GISEMENT SOUTERRAIN D'UNE SUBSTANCE CONTENANT DES HYDROCARBURES PAR RÉDUCTION DE SA VISCOSITÉ

Publication

EP 2122123 A1 20091125 (DE)

Application

EP 08708588 A 20080201

Priority

- EP 2008051282 W 20080201
- DE 102007008292 A 20070216
- DE 102007040606 A 20070827

Abstract (en)

[origin: WO2008098850A1] The invention relates to a device for the in-situ extraction of a hydrocarbon-containing substance, while reducing the viscosity thereof, from an underground deposit (103), wherein the device comprises at least one injection pipeline (101) extending in the deposit (103) and at least one production pipeline (102) leading out of the deposit (103), which together form a so-called well pair. The injection pipeline (101) and the production pipeline (102) each have a starting region (501, 502) extending above ground in some areas, and an active region (503, 504) connecting to the starting region (501, 502) inside the deposit. With the method according to the invention, during a heating phase hot steam is applied to the injection pipeline (101) and the production pipeline (102), while during a production phase hot steam is applied only to the injection pipeline (101). Furthermore, the active region (503) of the injection pipeline (101) is additionally configured as an induction heater regarding the surrounding area in the deposit (103). The associated device is provided with appropriate means, wherein, for example, the well pair formed by the injection pipeline (101) and production pipeline (102) can be configured as electrodes.

IPC 8 full level

E21B 43/24 (2006.01)

CPC (source: EP US)

E21B 43/2401 (2013.01 - EP US); **E21B 43/2408** (2013.01 - EP US); **E21B 43/305** (2013.01 - EP US)

Citation (search report)

See references of WO 2008098850A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008098850 A1 20080821; AT E487024 T1 20101115; CA 2678473 A1 20090814; CA 2678473 C 20120807; DE 102007008292 A1 20080821; DE 102007008292 B4 20090813; DE 502008001712 D1 20101216; EP 2122123 A1 20091125; EP 2122123 B1 20101103; PL 2122123 T3 20110429; RU 2414592 C1 20110320; US 2010108318 A1 20100506; US 8091632 B2 20120110

DOCDB simple family (application)

EP 2008051282 W 20080201; AT 08708588 T 20080201; CA 2678473 A 20080201; DE 102007008292 A 20070216; DE 502008001712 T 20080201; EP 08708588 A 20080201; PL 08708588 T 20080201; RU 2009134488 A 20080201; US 52674308 A 20080201