

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

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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.

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