

Title (en)

Producing hydrocarbon material from a layer of oil sand

Title (de)

Herstellung eines Kohlenwasserstoffmaterials aus einer Öl-Sand-Schicht

Title (fr)

Fabrication d'un matériau d'hydrocarbures à partir d'une couche de sable pétrolifère

Publication

EP 2400112 A1 20111228 (EN)

Application

EP 10167160 A 20100624

Priority

EP 10167160 A 20100624

Abstract (en)

A method of producing hydrocarbon material from a layer of oil sand located in an earth formation, the layer of oil sand having a thickness and extending in an extension direction for more than its thickness, the method comprising creating a borehole arrangement in the earth formation, including a production borehole having a production borehole section extending in a production borehole direction, and a refill borehole having a refill borehole section extending in a refill borehole direction, wherein both the production and the refill borehole directions are deviating less than 45 degrees from the extension direction; creating a cavity in the layer of oil sand, the cavity being in fluid communication with the production borehole section; extending the cavity by operating fluid jetting means to jet a stream of fluid against a wall of the cavity, to obtain a slurry comprising fluid, hydrocarbon material, and sand; withdrawing the slurry from the cavity via the production borehole to a processing facility for processing the slurry; and injecting refill material into the cavity via the refill borehole section, wherein the refill borehole section extends below the production borehole section.

IPC 8 full level

E21B 43/29 (2006.01); **E21B 43/30** (2006.01); **E21F 15/08** (2006.01)

CPC (source: EP US)

E21B 43/29 (2013.01 - EP US); **E21B 43/305** (2013.01 - EP US); **E21C 41/24** (2013.01 - EP US); **E21F 15/08** (2013.01 - EP US)

Citation (applicant)

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- WO 2010000729 A1 20100107 - SHELL INT RESEARCH [NL], et al
- WO 2010000736 A1 20100107 - SHELL INT RESEARCH [NL], et al
- D.D. TANNANT: "Hydraulic underground mining of oil sands - the next big step", CIM MAGAZINE BY THE CANADIAN INSTITUTE OF MINING & METALLURGY, vol. 94, no. 1054, 2001, pages 63 - 66

Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME RS

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