

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)

- WO 2008064305 A2 20080529 - OSUM OIL SANDS CORP [CA], et al
- 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)

- [YD] WO 2008064305 A2 20080529 - OSUM OIL SANDS CORP [CA], et al
- [Y] US 6688702 B1 20040210 - ABRAMOV GRIGORI A [US], et al
- [A] US 4076311 A 19780228 - JOHNS ROBERT W
- [A] US 4035023 A 19770712 - COCKRELL CLIFFORD MCDONALD
- [A] US 3302720 A 19670207 - BRANDON CLARENCE W
- [A] GB 1461473 A 19770113 - AKZONA INC
- [A] US 4289354 A 19810915 - ZAKIEWICZ BOHDAN M
- [A] US 2682396 A 19540629 - HAWORTH RUSSELL G
- [AD] TANNANT D D ET AL: "Hydraulic underground mining of oil sands - the next big step", CIM BULLETIN, MONTREAL, CA, vol. 94, no. 1054, 1 January 2001 (2001-01-01), pages 63 - 66, XP009108611, ISSN: 0317-0926

Cited by

WO2013062871A3

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Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

**EP 2400112 A1 20111228**; CA 2744109 A1 20111224; US 2011315397 A1 20111229

DOCDB simple family (application)

**EP 10167160 A 20100624**; CA 2744109 A 20110622; US 20113166396 A 20110622