Title (en)

IMPROVED IN-SITU COMBUSTION RECOVERY PROCESS USING SINGLE HORIZONTAL WELL TO PRODUCE OIL AND COMBUSTION GASES TO SURFACE

Title (de)

VERBESSERTES IN-SITU-VERBRENNUNGSRÜCKGEWINNUNGSVERFAHREN UNTER VERWENDUNG EINES HORIZONTALEN EINZELSCHACHTS ZUR HERSTELLUNG VON ÖL UND VERBRENNUNGSGASEN AN DER OBERFLÄCHE

Title (fr)

PROCEDE DE RECUPERATION A COMBUSTION IN SITU AMELIOREE UTILISANT UN PUITS HORIZONTAL UNIQUE POUR PRODUIRE DU PETROLE ET DES GAZ DE COMBUSTION VERS LA SURFACE

Publication

EP 2553217 A1 20130206 (EN)

Application

EP 10848645 A 20101210

Priority

- CA 2698454 A 20100330
- CA 2010001967 W 20101210

Abstract (en)

[origin: CA2698454C] An in-situ combustion process which process does not employ one or more separate gas venting wells. At least one vertical production well having a substantially vertical portion extending downwardly into the reservoir and a horizontal leg portion extending horizontally outwardly therefrom completed relatively low in the reservoir is provided. At least one vertical oxidizing gas injection well, positioned above and in spaced relation to the horizontal well, is positioned laterally along the horizontal well approximately midsection thereof. Oxidizing gas is injected therein and combustion fronts are caused to progress outwardly from such injection well in mutually opposite directions along the horizontal well. Preferably a plurality of injection wells are provided along the direction of the horizontal well, and oxidizing gas is injected in each and combustion fronts caused to progress outwardly and in opposite directions from each, and oil is caused to drain down into the horizontal well, which oil along with hot combustion gases is produced to surface.

IPC 8 full level

E21B 43/243 (2006.01); **E21B 43/28** (2006.01)

CPC (source: EP US)

E21B 43/243 (2013.01 - EP US); **E21B 43/305** (2013.01 - EP US)

Citation (search report)

See references of WO 2011120126A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

CA 2698454 A1 20110111; **CA 2698454 C 20111129**; AR 080013 A1 20120307; BR 112012024953 A2 20160712; CN 102933792 A 20130213; CO 6350199 A1 20111220; EC SP12012225 A 20121130; EP 2553217 A1 20130206; MX 2012011315 A 20121123; PE 20110902 A1 20120125; RU 2012145184 A 20140510; RU 2539048 C2 20150110; US 2013074470 A1 20130328; WO 2011120126 A1 20111006

DOCDB simple family (application)

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