

Title (en)

A MODIFIED PROCESS FOR HYDROCARBON RECOVERY USING IN SITU COMBUSTION

Title (de)

MODIFIZIERTES VERFAHREN ZUR GEWINNUNG VON KOHLENWASSERSTOFFEN UNTER VERWENDUNG VON IN-SITU-VERBRENNUNG

Title (fr)

PROCÉDÉ MODIFIÉ DE RÉCUPÉRATION D'HYDROCARBURES FAISANT APPEL À UNE COMBUSTION IN SITU

Publication

**EP 2324195 A4 20130626 (EN)**

Application

**EP 09710585 A 20090123**

Priority

- CA 2009000066 W 20090123
- CA 2621013 A 20080213
- US 6888108 A 20080213

Abstract (en)

[origin: WO2009100518A1] A modified method of in situ recovery of hydrocarbon from an underground hydrocarbon-containing formation. An "L" shaped production well, having a vertical upper section, and a lower horizontally-extending leg which is positioned low in the hydrocarbon formation, is provided. The horizontal leg connects to the vertical section of the production well at a heel portion and has a toe portion at an opposite end thereof. An oxidizing gas is injected into the formation proximate the vertical section of the production well. A vertical combustion front is created which is caused to sweep outwardly therefrom and laterally within the formation above the horizontal leg, from the heel to the toe of the horizontal leg, causing hydrocarbons in the formation above the horizontal leg to be upgraded and liquify, and thereafter to drain downwardly into the horizontal leg which is permeable, where such liquified hydrocarbons are then delivered to surface via production tubing. A non-oxidizing gas is injected into the heel portion of the horizontal leg via injection tubing contained within the vertical section of the production well. Benefits of the modified method of in situ recovery include decreased costs and lessened environmental impact.

IPC 8 full level

**E21B 43/243** (2006.01); **E21B 43/30** (2006.01)

CPC (source: EP GB)

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

Citation (search report)

- [Y] US 2006207762 A1 20060921 - AYASSE CONRAD [CA]
- [Y] US 2007256833 A1 20071108 - PFEFFERLE WILLIAM C [US]
- See also references of WO 2009100518A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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