

Title (en)

METHOD FOR PRODUCING CAST IRON USING BLAST-FURNACE GASES FOR ENHANCED OIL RECOVERY

Title (de)

VERFAHREN ZUR PRODUKTION VON GUSSEISEN UNTER VERWENDUNG VON HOCHOFENGASEN ZUR VERBESSERTEN ÖLGEWINNUNG

Title (fr)

PROCEDE DE FABRICATION DE FONTE AVEC UTILISATION DES GAZ DU HAUT-FOURNEAU POUR LA RECUPERATION ASSISTEE DU PETROLE

Publication

EP 1733059 A2 20061220 (FR)

Application

EP 04786395 A 20040827

Priority

- FR 2004050397 W 20040827
- FR 0350517 A 20030909

Abstract (en)

[origin: FR2859483A1] The process, in which iron is smelted in a blast furnace (4) using fuel and an oxidant, comprises recovering the gases output by the furnace and separating the CO₂ from them. The CO₂ flow is purified so that it contains no more than 1 wt.% CO and not more than 500 ppm of sulfur, and is liquefied for transportation by pipeline, road or other means to an oil well site so it can be injected at a pressure of about 70 x 10⁵ Pa to facilitate petroleum extraction. The purification can be carried out before or after liquefaction, and the other gases from the blast furnace can be used in a reheating furnace, heat exchanger or power generating plant.

IPC 8 full level

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CPC (source: EP)

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