

Title (en)

Method for removing hydrate plug from a flowline

Title (de)

Verfahren zur Entfernung eines Hydratsteckers aus einer Flussleitung

Title (fr)

Procédé pour supprimer le connecteur d'hydrate à partir d'une conduite d'écoulement

Publication

EP 2067926 A1 20090610 (EN)

Application

EP 07254690 A 20071204

Priority

EP 07254690 A 20071204

Abstract (en)

A method of drilling through a blockage in a flowline using a remotely controlled electrically operated drilling tool that comprises a drill bit, a steering means, a pumping means, and a propulsion system wherein the drilling tool is connected either directly or indirectly to an electric cable and the drill bit is mounted on the steering means, the method comprising: introducing the drilling tool into the flowline; actuating the electrically operated propulsion system to move the drilling tool through the flowline to the location of the blockage; actuating the electrically operated steering means so that the drill bit is aligned with the blockage; actuating the electrically operated drill bit so that the drill bit engages with and drills through the blockage; and actuating the electrically operated pump so that when the drill bit engages with the blockage, fluid that is present in the flowline adjacent the blockage is passed over the cutting surfaces of the drill bit and cuttings from the blockage are transported away from the cutting surfaces of the drill bit suspended in the fluid.

IPC 8 full level

E21B 37/00 (2006.01)

CPC (source: EP US)

B08B 9/0436 (2013.01 - EP US); **E21B 4/04** (2013.01 - EP US); **E21B 23/001** (2020.05 - EP); **E21B 23/14** (2013.01 - EP US); **E21B 37/00** (2013.01 - EP US); **E21B 23/001** (2020.05 - US)

Citation (applicant)

WO 2007122393 A1 20071101 - BP EXPLORATION OPERATING [GB], et al

Citation (search report)

- [A] WO 9533581 A1 19951214 - MOBIL OIL CORP [US]
- [A] WO 0073619 A1 20001207 - WEATHERFORD LAMB [US], et al
- [A] US 6343652 B1 20020205 - CORRE PIERRE-YVES [FR], et al
- [A] US 2003056954 A1 20030327 - HEADWORTH COLIN STUART [US]

Cited by

WO2010010326A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 2067926 A1 20090610; AT E510105 T1 20110615; BR PI0820010 A2 20150519; EP 2225438 A1 20100908; EP 2225438 B1 20110518; US 2010236785 A1 20100923; WO 2009071869 A1 20090611; WO 2009071869 A8 20100701

DOCDB simple family (application)

EP 07254690 A 20071204; AT 08856308 T 20081119; BR PI0820010 A 20081119; EP 08856308 A 20081119; GB 2008003888 W 20081119; US 73490608 A 20081119