

Title (en)

Method for reducing the injection pressure of a polymer solution in an oil well without shear degradation

Title (de)

Verfahren zur Senkung des Bohrlochinjektionsdruckes einer Polymerlösung ohne Scherkraft Abbau

Title (fr)

Procédé de réduction de la pression d'injection d'une solution de polymère dans un puits de pétrole sans cisaillement de ladite solution

Publication

EP 2366868 A1 20110921 (FR)

Application

EP 11305180 A 20110222

Priority

FR 1051847 A 20100316

Abstract (en)

The method involves inserting a main displacement pump between an injection pump and an oil well, where the displacement pump is a gear pump. Speed of the displacement pump is controlled using Telma(RTM: electric brake), where the displacement pump is reversible. The brake is connected to an engine shaft, where speed of the displacement pump is controlled by a valve that is located in downstream of the displacement pump. Closing and opening processes of the displacement pump are managed according to injection pressure determined for the well.

Abstract (fr)

Procédé de réduction de la pression d'injection d'une solution de polymère hydrosoluble à partir d'une même pompe d'injection dans divers puits de pétrole d'un même champs en fonction de la pression de fracturation de chaque puits selon lequel, on intercale entre la pompe d'injection et chacun des puits, une pompe volumétrique principale dont on contrôle la vitesse au moyen d'un frein.

IPC 8 full level

E21B 43/16 (2006.01); **E21B 21/06** (2006.01); **E21B 43/26** (2006.01)

CPC (source: BR EP US)

E21B 21/062 (2013.01 - BR EP US); **E21B 43/16** (2013.01 - BR EP US); **E21B 43/2607** (2020.05 - BR EP US)

Citation (applicant)

US 2009242201 A1 20091001 - VAN BEURDEN JORGEN [CA], et al

Citation (search report)

- [YD] US 2009242201 A1 20091001 - VAN BEURDEN JORGEN [CA], et al
- [Y] US 4510397 A 19850409 - SCHROEDER JR DONALD E [US]
- [A] CA 1209466 A 19860812 - MARATHON OIL CO
- [A] WO 2008081048 A2 20080710 - SPCM SA [FR], et al
- [A] US 4204574 A 19800527 - STALDER JOHN L [US]

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FR3026773A1; FR3014475A1; FR3014474A1; WO2015086785A3; WO2015086776A3; WO2016051051A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2366868 A1 20110921; **EP 2366868 B1 20130417**; BR PI1100232 A2 20150707; BR PI1100232 B1 20201124; FR 2957629 A1 20110923; FR 2957629 B1 20120406; MX 2011002672 A 20110921; US 2011226480 A1 20110922; US 8807222 B2 20140819

DOCDB simple family (application)

EP 11305180 A 20110222; BR PI1100232 A 20110223; FR 1051847 A 20100316; MX 2011002672 A 20110310; US 201113044052 A 20110309