

Title (en)

GASEOUS SEAL INJECTION IN A WELLBORE

Title (de)

EINSPRITZUNG VON GASFÖRMIGEN DICHTUNGEN IN EIN BOHRLOCH

Title (fr)

INJECTION DE JOINT D'ÉTANCHÉITÉ À L'ÉTAT GAZEUX DANS UN Puits DE FORAGE

Publication

**EP 3803039 A1 20210414 (EN)**

Application

**EP 19726287 A 20190513**

Priority

- US 201815992835 A 20180530
- US 2019031963 W 20190513

Abstract (en)

[origin: US2019368305A1] A method for treating a well includes flowing a sealant heated to a gaseous phase to cement disposed in an annulus of a wellbore, where the annulus is formed between a casing installed in the wellbore and a cylindrical wall radially outward of the casing. The cement includes a fluid loss opening formed over time. The method includes flowing the sealant in gaseous phase through the fluid loss opening in the cement of the annulus, and cooling the sealant in the gaseous phase into a phase transition of the sealant. The phase transition includes a deposition of the sealant from the gaseous phase to a solid phase or a condensation of the sealant from the gaseous phase to a liquid phase. Further, the sealant seals the fluid loss opening in response to cooling the sealant.

IPC 8 full level

**C09K 8/42** (2006.01); **E21B 33/13** (2006.01); **E21B 36/00** (2006.01)

CPC (source: EP US)

**C09K 8/426** (2013.01 - EP); **C09K 8/428** (2013.01 - EP); **E21B 33/13** (2013.01 - EP US); **E21B 36/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2019231651A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**US 2019368305 A1 20191205**; CN 112219012 A 20210112; EP 3803039 A1 20210414; WO 2019231651 A1 20191205

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**US 201815992835 A 20180530**; CN 201980035517 A 20190513; EP 19726287 A 20190513; US 2019031963 W 20190513