

Title (en)

HYDRAULICALLY POWERED DOWNHOLE PISTON PUMP

Title (de)

HYDRAULISCH ANGETRIEBENE BOHRLOCHKOLBENPUMPE

Title (fr)

POMPE À PISTON DE FOND DE TROU À ALIMENTATION HYDRAULIQUE

Publication

EP 3449095 A1 20190306 (EN)

Application

EP 17724910 A 20170424

Priority

- US 201662328811 P 20160428
- IB 2017052341 W 20170424

Abstract (en)

[origin: WO2017187315A1] A wellbore pump (300) includes a receptacle for a pump formed into a wellbore production tubing (110). A pump includes a seal (306) engageable with an interior surface of the receptacle, the seal has a pump rod (313) passing sealingly through the seal. The pump rod has a piston in sealing engagement with an interior of the tubing on each side of the seal. A power fluid line (116) is in hydraulic connection to an interior of the production tubing above and below the seal. A well fluid inlet port is disposed between one of the pistons. A longitudinally spaced apart check valve (305) is disposed in the wellbore production tubing above an upper one of the pistons.

IPC 8 full level

E21B 43/12 (2006.01); **F04B 9/115** (2006.01); **F04B 47/00** (2006.01); **F04B 47/04** (2006.01)

CPC (source: EP US)

E21B 43/129 (2013.01 - EP US); **F04B 47/04** (2013.01 - EP US); **F04B 53/02** (2013.01 - EP US); **F04B 53/144** (2013.01 - EP US);
E21B 34/08 (2013.01 - US); **E21B 2200/04** (2020.05 - US)

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)

WO 2017187315 A1 20171102; **WO 2017187315 A9 20171221**; AU 2017256166 A1 20181115; CA 3021269 A1 20171102;
CN 109415932 A 20190301; CO 2018011535 A2 20181113; EP 3449095 A1 20190306; MX 2018013153 A 20190328;
US 2019048695 A1 20190214

DOCDB simple family (application)

IB 2017052341 W 20170424; AU 2017256166 A 20170424; CA 3021269 A 20170424; CN 201780035912 A 20170424;
CO 2018011535 A 20181026; EP 17724910 A 20170424; MX 2018013153 A 20170424; US 201816165478 A 20181019