Title (en)

COILED TUBING APPLICATIONS AND MEASUREMENT TOOL

Title (de)

ROHRWENDELANWENDUNGEN UND MESSWERKZEUG

Title (fr)

APPLICATIONS DE TUBE SPIRALÉ ET OUTIL DE MESURE

Publication

EP 3724449 A4 20211117 (EN)

Application

EP 18860569 A 20181001

Priority

- US 201715721083 A 20170929
- US 2018053735 W 20181001

Abstract (en)

[origin: US2019100994A1] An apparatus and system for generating pressure pulses and gathering down-hole sensory information for enhancing and completing a well bore within a coiled tubing operation including: a valve longitudinally and axially positioned within the center of a pulser section and electronics to transmit and record down-hole sensory information. The main fluid flow is interrupted by the main valve which is operated by the controlled pilot fluid stream. The main fluid flow proceeds toward one or more pressure sensors to measure the fluid flow pressure with sensors that send signals to a Digital Signal Processor (DSP) that controls a valve which generates controllable and measurable energy pulses. Recorded downhole sensory information such as temperature, fluid bore and annulus pressure, weight/axial force, torque, vibration, shock, gravity tool-face, casing collar locator, gamma, flow and battery condition can be transmitted in real-time via pressure pulses to the surface with pulser or downloaded for analysis.

IPC 8 full level

E21B 47/20 (2012.01)

CPC (source: EP US)

E21B 17/203 (2013.01 - EP US); **E21B 19/22** (2013.01 - EP US); **E21B 23/00** (2013.01 - EP US); **E21B 23/001** (2020.05 - EP); **E21B 47/18** (2013.01 - EP US); **E21B 47/24** (2020.05 - US); E21B 17/20 (2013.01 - US); E21B 23/001 (2020.05 - US); E21B 43/26 (2013.01 - EP US)

Citation (search report)

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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

DOCDB simple family (publication)

US 2019100994 A1 20190404; EP 3724449 A1 20201021; EP 3724449 A4 20211117; WO 2019068081 A1 20190404

DOCDB simple family (application)

US 201715721083 A 20170929; EP 18860569 A 20181001; US 2018053735 W 20181001