

Title (en)

Wireless telemetry systems for downhole tools

Title (de)

Drahtlose Telemetriesysteme für Bohrlochwerkzeuge

Title (fr)

Systèmes téléométriques sans fil pour outils d'extraction

Publication

EP 2157278 A1 20100224 (EN)

Application

EP 08162854 A 20080822

Priority

EP 08162854 A 20080822

Abstract (en)

Apparatus for transmitting data in a borehole (10) between a downhole tool installation including one or more tools (20) (for example downhole testing tools) and a surface installation (62), wherein the downhole tool installation is connected to the surface installation by means of a tubular conduit (such as a drill string or production tubing (14), the apparatus comprising - an acoustic modem (26) associated with each tool, the modem acting to convert tool signals such as electrical tool signals into acoustic signals; and - a hub (90) forming part of the downhole installation to which the tools and tubular conduit are connected and comprising an acoustic receiver (74) and an electromagnetic transmitter (80); wherein the acoustic modems operate to generate acoustic signals in the installation representative of the tool signals, the acoustic tool signal passing along the downhole installation to be received at the acoustic receiver of the hub, the received acoustic signals being used to operate the electromagnetic transmitter to transmit electromagnetic signals to the surface for reception at the surface installation.

IPC 8 full level

E21B 47/12 (2006.01); **E21B 47/16** (2006.01)

CPC (source: EP US)

E21B 47/13 (2020.05 - EP US); **E21B 47/16** (2013.01 - EP US)

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Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2157278 A1 20100224; BR PI0917362 A2 20151117; US 2011205847 A1 20110825; WO 2010020354 A1 20100225

DOCDB simple family (application)

EP 08162854 A 20080822; BR PI0917362 A 20090804; EP 2009005715 W 20090804; US 200913059673 A 20090804