

Title (en)
DOWNHOLE WIRELESS TWO-WAY TELEMETRY SYSTEM

Title (de)
DRAHTLOSES ZWEI-WEGE-BOHRLOCH-TELEMETRIESYSTEM

Title (fr)
SYSTEME DE TELEMETRIE BIDIRECTIONNEL SANS FIL DE FOND

Publication
EP 1250514 A1 20021023 (EN)

Application
EP 01911520 A 20010122

Priority
• EP 0100736 W 20010122
• US 17800100 P 20000124
• US 17788300 P 20000124
• US 17799800 P 20000124

Abstract (en)
[origin: WO015554A1] A petroleum well having a wireless power and data communication system is provided. The well uses the tubing and/or casing to communicate with and power a plurality of devices, such as sensors and controllable valves. An electrically isolating portion of a tubing hanger at the surface of the well and a ferromagnetic choke downhole may electrically isolate the tubing from the casing and provide a communications path. A plurality of modems positioned downhole along the tubing string communicate sensor information to a modem and a computer located at the surface of the well. Based on an analysis of the sensor information received by the computer, instructions can be communicated along the tubing string to the controllable valves to adjust the flow rate of lift gas passing through the valves.

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CPC (source: EP US)
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Cited by
GB2624609A; WO2023028685A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 015554 A1 20010802; AT E292744 T1 20050415; AU 4053701 A 20010807; AU 772610 B2 20040506; BR 0107819 A 20040706; BR 0107819 B1 20110222; DE 60109895 D1 20050512; DE 60109895 T2 20060209; EP 1250514 A1 20021023; EP 1250514 B1 20050406; MX PA02007181 A 20030128; MY 129879 A 20070531; NO 20023500 D0 20020723; NO 20023500 L 20020923; NO 322599 B1 20061030; OA 12214 A 20060509

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