Title (en)

DRILL STRING ADAPTER AND METHOD FOR INGROUND SIGNAL COUPLING

Title (de)

BOHRSTRANGADAPTER UND VERFAHREN FÜR UNTERIRDISCHE SIGNALKOPPLUNG

Title (fr)

ADAPTATEUR POUR TRAIN DE TIGES ET PROCÉDÉ DE COUPLAGE DE SIGNAL SOUS TERRE

Publication

EP 2678516 A4 20171122 (EN)

Application

EP 12748918 A 20120208

Priority

- US 201113035833 A 20110225
- US 201113035774 A 20110225
- US 2012024257 W 20120208

Abstract (en)

[origin: WO2012115778A2] A coupling adapter is insertable in at least one joint of a drill string as the drill string is extended from a drill rig. The coupling adapter includes an arrangement for receiving a data signal that is generated by an inground tool and for electromagnetically coupling the data signal onto at least a portion of the drill string that extends from the adapter to the drill rig such that at least some of the drill pipe sections cooperate as an electrical conductor for carrying the data signal to the drill rig. In another feature, a current transformer is resiliently supported to isolate the current transformer from mechanical shock and vibration that is produced by an inground operation that is performed using the drill string. In another feature, a drill string repeater is described.

IPC 8 full level

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CPC (source: EP US)

E21B 17/003 (2013.01 - EP); **E21B 17/0283** (2020.05 - EP US); **E21B 47/12** (2013.01 - EP US)

Citation (search report)

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- [Y] US 5869968 A 19990209 - BROOKS ANDREW G [US], et al
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Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 2012024257 W 20120208; CN 201280015145 A 20120208; CN 201280015241 A 20120208; EP 12748918 A 20120208; EP 12749614 A 20120208; HK 15102400 A 20150310; RU 2013138440 A 20120208; RU 2013138441 A 20120208; US 2012024261 W 20120208