

Title (en)

DRILL STRING COUPLING AND METHOD FOR OPERATING THE DRILL STRING COUPLING

Title (de)

BOHRGESTÄNGEKUPPLUNG UND VERFAHREN ZUM BETÄTIGEN DER BOHRGESTÄNGEKUPPLUNG

Title (fr)

ACCOUPLEMENT DE TIGE DE FORAGE ET PROCÉDÉ DE FONCTIONNEMENT DE L'ACCOUPLEMENT DE TIGE DE FORAGE

Publication

EP 3910160 B1 20231115 (DE)

Application

EP 20174084 A 20200512

Priority

EP 20174084 A 20200512

Abstract (en)

[origin: CA3178429A1] The invention relates to a drill rod coupling with a sleeve-shaped coupling receiving area, a pin-shaped coupling element which is designed to be axially pluggable into the coupling receiving area in order to form a rotationally fixed connection, and at least one locking bolt which is oriented transversely to the axial coupling direction and which extends into a locking receiving area between the coupling receiving area and the coupling element in a locked coupling position. The locking bolt is mounted in a radially adjustable manner between an unlocking position and a locking position. An efficient coupling is achieved in that a clamping device is provided which is used to push the locking bolt into the locking position with a specified clamping force, and the locking bolt is connected to a restoring element, by means of which the locking bolt can be restored into the unlocking position upon applying a restoring force.

IPC 8 full level

E21B 17/046 (2006.01); **E21B 17/03** (2006.01)

CPC (source: EP US)

E21B 17/03 (2013.01 - EP US); **E21B 17/0465** (2020.05 - EP 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

DOCDB simple family (publication)

EP 3910160 A1 20211117; **EP 3910160 B1 20231115**; **EP 3910160 C0 20231115**; AU 2021270768 A1 20230105; AU 2021270768 B2 20240215; CA 3178429 A1 20211118; CN 115461524 A 20221209; EP 4127382 A1 20230208; US 11913289 B2 20240227; US 2023193698 A1 20230622; WO 2021228663 A1 20211118

DOCDB simple family (application)

EP 20174084 A 20200512; AU 2021270768 A 20210505; CA 3178429 A 20210505; CN 202180034854 A 20210505; EP 2021061895 W 20210505; EP 21723731 A 20210505; US 202117998458 A 20210505