

Title (en)

Implement for use in making up and breaking out of a string of a well

Title (de)

Werkzeug zur Verwendung beim Lösen und Herausbrechen eines Bohrlochgestänges

Title (fr)

Élément à utiliser dans la construction et la percée d'une chaîne d'un puits

Publication

EP 2930299 A1 20151014 (EN)

Application

EP 14163925 A 20140408

Priority

EP 14163925 A 20140408

Abstract (en)

An implement for controlling an opening (61; 161; 261) for receiving a tubular of a drill string, for reversibly closing off the opening (61; 161; 261), sealing off the opening (61; 161; 261) against the tubular and/or engaging the tubular. The implement has a carrier sleeve (62, 63; 162; 262), one or more jaws (64-66; 164; 264) carried by the carrier sleeve (62, 63; 162; 262) and mounted so as to be movable into and out of the opening (61; 161; 261). The operating sleeve (67; 167; 267) is rotatable relative to the carrier sleeve (62, 63; 162; 262) about a central axis (60; 160; 260) of the opening (61; 161; 261). The jaw (64-66; 164; 264) is coupled to the operating sleeve (67; 167; 267) for urging the jaw (64-66; 164; 264) into the opening (61; 161; 261) in response to rotation of the operating sleeve (67; 167; 267) relative to the carrier sleeve (62, 63; 162; 262). An apparatus for connecting and disconnecting tubulars of a drill string is also described.

IPC 8 full level

E21B 21/10 (2006.01); **E21B 3/00** (2006.01); **E21B 19/16** (2006.01)

CPC (source: EP US)

E21B 3/00 (2013.01 - EP US); **E21B 19/161** (2013.01 - EP); **E21B 21/106** (2013.01 - EP)

Citation (applicant)

- US 3559739 A 19710202 - HUTCHISON STANLEY O
- WO 9816716 A1 19980423 - AYLING JOHN LAURENCE [GB]
- WO 0023686 A1 20000427 - WELL ENGINEERING PARTNERS B V [NL], et al
- WO 9934089 A1 19990708 - WELL ENGINEERING PARTNERS B V [NL], et al

Citation (search report)

- [X] US 3180186 A 19650427 - CATLAND ALFRED C
- [XD] WO 0023686 A1 20000427 - WELL ENGINEERING PARTNERS B V [NL], et al
- [A] WO 9816351 A1 19980423 - BUCK DAVID A [US]
- [A] WO 0236928 A1 20020510 - COUPLER DEVELOPMENTS LTD [GB]

Cited by

US10995563B2; US11136837B2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2930299 A1 20151014; BR 112016023529 A2 20170815; EP 3129579 A1 20170215; EP 3129579 B1 20190116;
WO 2015156671 A1 20151015

DOCDB simple family (application)

EP 14163925 A 20140408; BR 112016023529 A 20150408; EP 15721048 A 20150408; NL 2015050228 W 20150408