

Title (en)

Connector and rod lock for a drilling rod

Title (de)

Steckverbindung und Gestängeschluss für ein Bohrgestänge

Title (fr)

Connecteur à fiches et raccord de tringlerie pour une tige de sondage

Publication

**EP 2487321 A3 20160406 (DE)**

Application

**EP 12000706 A 20120202**

Priority

DE 102011010958 A 20110210

Abstract (en)

[origin: EP2487321A2] The connection has a plug (5) provided on an end of one of two pipe sections and comprising one of a helical guide protrusion (6) or a guide groove (7). A connecting bushing is arranged on an end of the other pipe section and comprises one of a guide groove or a helical guide protrusion meshing with the helical guide protrusion or guide groove of the plug. The guide protrusions and the guide grooves comprise radially oriented contact surfaces (10). A cylindrical bearing surface (19) receives a bearing ring. An independent claim is also included for a pipe section for a drill pipe.

IPC 8 full level

**E21B 7/00** (2006.01); **E21B 17/02** (2006.01); **E21B 17/04** (2006.01); **E21B 17/046** (2006.01); **E21B 17/18** (2006.01); **E21B 21/12** (2006.01)

CPC (source: EP US)

**E21B 7/002** (2013.01 - EP US); **E21B 17/046** (2013.01 - EP US); **E21B 17/18** (2013.01 - EP US); **E21B 21/12** (2013.01 - EP US);  
**E21B 17/0285** (2020.05 - EP US)

Citation (search report)

- [XY] US 2275418 A 19420310 - ALEXANDER BOYNTON
- [Y] EP 1434063 A2 20040630 - HALLIBURTON ENERGY SERV INC [US]
- [Y] US 2007272444 A1 20071129 - CARLSON ROBIN [US], et al
- [X] US 2257101 A 19410930 - ALEXANDER BOYNTON
- [X] US 2280786 A 19420428 - ALEXANDER BOYNTON
- [A] US 4280535 A 19810728 - WILLIS CLYDE A

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 2487321 A2 20120815; EP 2487321 A3 20160406; EP 2487321 B1 20181121**; DE 102011010958 A1 20120816;  
US 2012205908 A1 20120816; US 9290992 B2 20160322

DOCDB simple family (application)

**EP 12000706 A 20120202**; DE 102011010958 A 20110210; US 201213369791 A 20120209