

Title (en)
Flexible drill rod

Title (de)
Flexible Bohrstange

Title (fr)
Tige de forage flexible

Publication
EP 2896780 A1 20150722 (EN)

Application
EP 14000169 A 20140117

Priority
EP 14000169 A 20140117

Abstract (en)
A drill rod (10) for a drilling rig (1) comprises a tube (19) comprising at least one corrugated cut (20) extending through a wall of the tube (19) in a transverse (G) direction. Each corrugated cut (20) has a substantially spiral baseline (21) and is arranged to deviate from its baseline on both sides of the baseline forming a cut of a substantially corrugated shape spiralling along the tube (19). Such tube (19) is flexible enabling bending in a transverse direction (G) of the drill rod (10) and rigid to enable transmitting torque and thrust in a lengthwise (E), transverse (G) and rotational (H) direction of the drill rod (10) when rotated for drilling.

IPC 8 full level
E21B 17/20 (2006.01)

CPC (source: EP RU)
E21B 17/20 (2013.01 - EP RU); **E21B 19/22** (2013.01 - EP RU)

Citation (search report)

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- [X] US 2706615 A 19550419 - ZUBLIN JOHN A
- [A] US 4811800 A 19890314 - HILL GUY J [US], et al
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Cited by
EP3693534A1; EP3693536A1; EP3693535A1; CN106223871A; CN106121575A; EP3854985A1

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 2896780 A1 20150722; BR 112016016534 A2 20170808; BR 112016016534 B1 20220329; BR 112016016537 A2 20170808; BR 112016016537 B1 20220308; CA 2936262 A1 20150723; CA 2936262 C 20180904; CL 2016001779 A1 20161209; EP 3094808 A1 20161123; EP 3094808 B1 20181212; MX 2016009209 A 20170306; MX 368192 B 20190924; PE 20161114 A1 20161029; PL 3094808 T3 20190531; RU 2629296 C1 20170828; WO 2015106859 A1 20150723; WO 2015107145 A1 20150723; ZA 201603997 B 20191218

DOCDB simple family (application)
EP 14000169 A 20140117; BR 112016016534 A 20150116; BR 112016016537 A 20141120; CA 2936262 A 20150116; CL 2016001779 A 20160712; EP 15709620 A 20150116; EP 2014075154 W 20141120; EP 2015050754 W 20150116; MX 2016009209 A 20150116; PE 2016001216 A 20150116; PL 15709620 T 20150116; RU 2016133179 A 20150116; ZA 201603997 A 20160613