

Title (en)
ASSEMBLED DRILLING TOOL

Title (de)
MONTIERTES BOHRWERKZEUG

Title (fr)
OUTIL DE FORAGE ASSEMBLÉ

Publication
EP 2628891 A4 20140827 (EN)

Application
EP 10858290 A 20101012

Priority
CN 2010077672 W 20101012

Abstract (en)
[origin: EP2628891A1] An assembled drilling tool has a drilling bit (2) connected with a drilling stem (1) through a drilling bit joint (3). The drilling stem is connected by drilling stem sections (11). Each drilling stem section includes an inner stem section (111) and a hollow outer stem section (112). The inner stem section is rotatably fixed in the outer stem section. The inner stem sections are connected together to form inner stem (11') of the drilling stem, and the outer stem sections are connected together to form outer stem (12') of the drilling stem. The inner stem is connected with an output shaft of a power machine, and the outer stem is fixedly connected with the shell of the power machine. The length of the drilling stem of the assembled drilling tool can be arbitrarily adjusted, and the drilling bit can be rotated with high speed without friction generated between the drilling stem and the hole wall, thereby improving the speed and the efficiency of hole drilling.

IPC 8 full level
E21B 17/00 (2006.01); **B28D 1/04** (2006.01); **B28D 1/14** (2006.01); **E21B 7/00** (2006.01); **E21B 17/04** (2006.01); **E21B 17/042** (2006.01); **E21B 17/046** (2006.01)

CPC (source: EP US)
B28D 1/041 (2013.01 - EP US); **B28D 1/14** (2013.01 - EP US); **E21B 7/002** (2013.01 - EP US); **E21B 17/00** (2013.01 - US); **E21B 17/04** (2013.01 - EP US); **E21B 17/042** (2013.01 - EP US)

Citation (search report)

- [XII] US 3517754 A 19700630 - HUGHES ROBERT W
- [XI] US 3345832 A 19671010 - BOTTOMS CLIFFORD C
- [X] US 3232362 A 19660201 - CULLEN ROY H, et al
- [X] WO 2009030926 A2 20090312 - SWIETLIK GEORGE [GB], et al
- See also references of WO 2012048458A1

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 2628891 A1 20130821; **EP 2628891 A4 20140827**; AU 2010362505 A1 20130404; RU 2013112502 A 20140927; RU 2528318 C1 20140910; US 2013220705 A1 20130829; WO 2012048458 A1 20120419

DOCDB simple family (application)
EP 10858290 A 20101012; AU 2010362505 A 20101012; CN 2010077672 W 20101012; RU 2013112502 A 20101012; US 201013878716 A 20101012