

Title (en)

A downhole tool assembly and a method for assembling and disassembling it

Title (de)

Bohrlochwerkzeug und Verfahren zum Montieren und Demontieren davon

Title (fr)

Ensemble outil de fond de trou et procédé permettant de l'assembler et de le désassembler

Publication

EP 2975212 A1 20160120 (EN)

Application

EP 14177368 A 20140717

Priority

EP 14177368 A 20140717

Abstract (en)

This invention relates to a down-hole tool assembly having a tool body (1),(101) with at least one pocket (4),(104), and at least one cartridge (5), (105) such as a roller assembly or a stabilizing pad or a reamer pad, fastened in the pocket (4),(104) in at least two different locations by fastening elements which are screwed into the tool body. The cartridge (5), (105) comprises abutment means (62),(72);(162),(172); (14),(15); (114),(115) for constraining the axial movement of each fastening element (8),(9);(108),(109) in a direction away from the tool body (1),(101), and the dimensions of the cartridge (5),(105) are such that there is a total clearance (C) between two opposite sides of the cartridge (5), (105) and the facing pocket walls, such that $C \neq X/2 + Y/2 - X$, where X is the cartridge dimension between the opposite sides, and Y is the depth of the pocket (4). The invention also relates to a method for assembling and a method for disassembling such a downhole tool assembly.

IPC 8 full level

E21B 47/01 (2012.01); **E21B 10/30** (2006.01); **E21B 10/62** (2006.01)

CPC (source: EP US)

E21B 10/30 (2013.01 - EP US); **E21B 10/62** (2013.01 - EP)

Citation (applicant)

- US 7878273 B2 20110201 - WILDE DAVID [US], et al
- EP 1650400 A1 20060426 - EUROP DRILLING PROJECTS B V [NL]
- US 6776247 B1 20040817 - BASSAL ADEL ALI [AU]
- WO 2004042184 A1 20040521 - EXTREME MACHINING AUSTRALIA PT [AU], et al
- US 201213692901 A 20121203
- US 4548284 A 19851022 - SHINN CALVIN W [US], et al
- WO 2008006146 A1 20080117 - OMNI OIL TECHNOLOGIES [AE], et al
- EP 1818500 B1 20091216 - OMNI OIL TECHNOLOGIES [AE]

Citation (search report)

- [X] US 4497384 A 19850205 - HART LAWRENCE D [US]
- [X] US 2013133954 A1 20130530 - MOHON BRIAN [US], et al
- [XD] US 4548284 A 19851022 - SHINN CALVIN W [US], et al
- [XD] WO 2004042184 A1 20040521 - EXTREME MACHINING AUSTRALIA PT [AU], et al

Cited by

GB2607048A; GB2607048B; WO2022248841A1

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 2975212 A1 20160120; WO 2016009299 A2 20160121; WO 2016009299 A3 20160519

DOCDB simple family (application)

EP 14177368 A 20140717; IB 2015055030 W 20150703