

Title (en)

Downhole swivel sub and method for releasing a stuck object in a wellbore

Title (de)

Abwärtsführender Drehgelenkübergang und Verfahren zum Ablösen eines in einem Bohrloch verfangenen Objekts

Title (fr)

Raccord à pivot de fond de trou et procédé pour libérer un objet coincé dans un puits de forage

Publication

EP 2955318 A1 20151216 (EN)

Application

EP 14171836 A 20140610

Priority

EP 14171836 A 20140610

Abstract (en)

The invention relates to a downhole swivel sub (100) destined to be included between two sections of a workstring, said swivel sub having a bore (126) extending therethrough and comprising : - a first swivel part (103) provided with a connection for a first section of the workstring; - a second swivel part (104) provided with a connection for a second section of the workstring, said second swivel part being rotatable relative to the said first swivel part; - a locking sleeve (117) rotationally coupled with the said first swivel part and movable axially between a locking position wherein the said first swivel part and the said second swivel part are rotationally coupled and an unlocking position wherein the said first swivel part is able to rotate relative to the said second swivel part; wherein the said locking sleeve comprises at least two first rows of teeth (116') disposed at the same radial position, separated axially on the said locking sleeve and arranged such as: - to engage with at least two second rows of teeth (116) located on the said second swivel part when the said locking sleeve is in the locking position and; - to disengage from the said second rows of teeth of the said second swivel part when the said locking sleeve is in the unlocking position.

IPC 8 full level

E21B 17/05 (2006.01)

CPC (source: EP)

E21B 17/05 (2013.01)

Citation (applicant)

- US 8439133 B2 20130514 - ZULAK MIKE [CA], et al
- US 6082457 A 20000704 - BEST BRUNO [NL], et al

Citation (search report)

- [I] US 2003127857 A1 20030710 - BOYD HARPER [US], et al
- [I] US 6244345 B1 20010612 - HELMS CHARLES M [US]
- [I] US 2004094309 A1 20040520 - MAGUIRE PATRICK G [US]
- [I] US 2012234559 A1 20120920 - HOWLETT PAUL [GB], et al

Cited by

CN115584943A; CN115929236A

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 2955318 A1 20151216

DOCDB simple family (application)

EP 14171836 A 20140610