

Title (en)

Cutting head with a retractable threading tooth actuated by a rack/gear system

Title (de)

Schneidkopf mit einfahrbarem, durch ein Zahnstangensystem betätigtem Gewindeschneidzahn

Title (fr)

Tête de coupe avec dents de filetage rétractables actionnées par une crémaillère/système d'engrenage

Publication

EP 2685006 A3 20140903 (EN)

Application

EP 13175274 A 20130705

Priority

GB 201212419 A 20120712

Abstract (en)

[origin: EP2685006A2] A cutting head comprising a hollow cylindrical core with a helical flight; #c a threading tooth presenting an extended and a retracted position; #c displacement means for displacing said threading tooth between said retracted position and said extended position, said displacement means comprising: #c an inner hollow tubular member mounted to move into said hollow cylindrical core in translation along said longitudinal axis and disposed at least at the bottom end of said hollow cylindrical core; #c a rack fixed to the inner hollow tubular member, #c at least a gear cooperating with the rack, said gear being mounted on the bottom end of the hollow cylindrical core, #c a lever connected to the gear; #c a connecting rod pivotally connected to the lever and to the threading tooth, whereby the translation of the rack causes the displacement of the threading tooth.

IPC 8 full level

E02D 5/34 (2006.01); **E02D 5/36** (2006.01); **E02D 7/22** (2006.01); **E21B 10/32** (2006.01)

CPC (source: EP GB)

E02D 5/34 (2013.01 - GB); **E02D 5/36** (2013.01 - EP GB); **E02D 5/44** (2013.01 - EP); **E02D 7/22** (2013.01 - EP); **E21B 10/32** (2013.01 - GB); **E21B 10/44** (2013.01 - GB)

Citation (search report)

- [AD] GB 2440939 A 20080220 - CIE DU SOL [FR]
- [A] US 6595301 B1 20030722 - DIAMOND LAWRENCE W [US], et al
- [A] EP 0459610 A2 19911204 - SMITH INTERNATIONAL [US]

Cited by

BE1021912B1; JP2021518888A; EP3784839A4; WO2019204866A1; EP3988716A1; LU102150B1

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 2685006 A2 20140115; **EP 2685006 A3 20140903**; **EP 2685006 B1 20160120**; ES 2568021 T3 20160427; GB 201212419 D0 20120829; GB 2503918 A 20140115; GB 2503918 B 20151230

DOCDB simple family (application)

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