

Title (en)

Device and method for underreaming a borehole.

Title (de)

Vorrichtung und Verfahren zur Herstellung einer Hinterschneidung in einem Bohrloch.

Title (fr)

Dispositif et procédé pour l'alésage d'un trou de forage.

Publication

EP 0298537 A2 19890111 (EN)

Application

EP 88201228 A 19880615

Priority

GB 8714921 A 19870625

Abstract (en)

A borehole underreamer device comprises a downhole motor having a rotor part which carries by means of a pivot (2) an elongate clapper body (1) in which a series of abrasive teeth (8) are embedded. In use the device is pulled in upward direction through the borehole while the clapper body describes an orbital motion inside the borehole thereby forcing the teeth to penetrate into the surrounding side wall of the borehole so as to underream the hole.

IPC 1-7

E21B 4/02; **E21B 4/18**; **E21B 7/28**; **E21B 10/32**; **E21B 10/46**; **E21B 10/60**; **E21B 44/00**

IPC 8 full level

E21B 4/18 (2006.01); **E21B 7/28** (2006.01); **E21B 10/32** (2006.01); **E21B 10/46** (2006.01); **E21B 10/60** (2006.01); **E21B 44/00** (2006.01)

CPC (source: EP)

E21B 4/18 (2013.01); **E21B 7/28** (2013.01); **E21B 10/32** (2013.01); **E21B 10/46** (2013.01); **E21B 10/60** (2013.01); **E21B 44/005** (2013.01)

Cited by

CN116427853A; GB2462306A; GB2462306B; EP0517603A1; FR2677402A1; US8899339B2; WO2015142333A1; US9587442B2; US11753748B2; US11753747B2

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

EP 0298537 A2 19890111; **EP 0298537 A3 19890412**; **EP 0298537 B1 19921202**; DE 3876318 D1 19930114; DE 3876318 T2 19930401; DK 169483 B1 19941107; DK 347088 A 19881226; DK 347088 D0 19880623; GB 8714921 D0 19870729; NO 302587 B1 19980323; NO 882798 D0 19880623; NO 882798 L 19881227

DOCDB simple family (application)

EP 88201228 A 19880615; DE 3876318 T 19880615; DK 347088 A 19880623; GB 8714921 A 19870625; NO 882798 A 19880623