

Title (en)

A METHOD FOR MOUNTING A CASING SHOE ON A DRILLING APPARATUS

Title (de)

VERFAHREN ZUM ANBRINGEN EINES FUTTERROHRSCHUHS AN EINER BOHRVORRICHTUNG

Title (fr)

PROCEDE DE MONTAGE D'UN SABOT DE TUBAGE SUR UN APPAREIL DE FORAGE

Publication

EP 1144797 A1 20011017 (EN)

Application

EP 98955619 A 19981123

Priority

FI 9800913 W 19981123

Abstract (en)

[origin: WO0031373A1] A method for mounting a casing shoe (4) around a cylindrical drilling apparatus (2), which shoe is used by drilling and pulled into the ground on drilling, whereby shoe (4) and drilling apparatus (2) can in the installed position rotate with respect to one another and move a certain distance axially with respect to one another, when shoulder (8) in the shoe is in transverse groove (9) on the periphery of the drilling apparatus and the groove is determining the length of the axial motion. The cylindrical shoe (2) is shrunk in order to make its diameter smaller around a spot in drilling apparatus (2) smaller than the outer diameter (Du), until through shrinking the outer diameter of the shoe has become smaller than the outer diameter (Du) of the drilling apparatus.

IPC 1-7

E21B 17/14; E21B 7/20

IPC 8 full level

E21B 17/14 (2006.01)

CPC (source: EP US)

E21B 17/14 (2013.01 - EP US); **Y10T 29/49908** (2015.01 - EP US)

Citation (search report)

See references of WO 0031373A1

Citation (third parties)

Third party :

- US 3792603 A 19740219 - ORAIN M
- DE 1800600 A1 19690828 - WIZEMANN & CO J
- DE 2133525 A1 19730125 - KLOECKNER HUMBOLDT DEUTZ AG
- EP 0143062 A1 19850529 - CEGEDUR [FR]
- EP 0558399 A1 19930901 - GEC ALSTHOM T & D SA [FR]
- EP 0685677 A1 19951206 - HYDROFIT SPA [IT]
- US 4498691 A 19850212 - COOKE HORISE M [US]
- WO 9012237 A1 19901018 - RAYCHEM CORP [US]
- GB 2280237 A 19950125 - INST FRANCAIS DU PETROLE [FR]
- EP 0126698 B1 19861112
- WO 9529321 A1 19951102 - ATLAS COPCO ROCKTECH AB [SE], et al
- WO 9628635 A1 19960919 - BRIT BIT LIMITED [GB], et al
- WO 9317215 A1 19930902 - EDMAN KNUT OESTEN [SE]
- GB 813301 A 19590513 - SCHOELLER BLECKMANN STAHLWERKE
- GB 857630 A 19610104 - AMERICAN IRON & MACHINE WORKS
- GB 860768 A 19610208 - ELECTROCHIMIE ELECTROMETALLURG
- GB 1518950 A 19780726 - REINHOLDT AS H
- US 3372452 A 19680312 - DONALD FIRTH, et al
- US 4157122 A 19790605 - MORRIS WILLIAM A [US]
- US 4453854 A 19840612 - EMMERICH KENNETH C [US]
- US 4627149 A 19861209 - COLAS FRANCOIS [FR]
- US 5150636 A 19920929 - HILL THOMAS E [US]
- US 5666864 A 19970916 - TIBBITTS GORDON A [US]
- US 5685057 A 19971111 - TSUI GARY [US]

Cited by

EP3011127A4; WO2015011336A1; US9970238B2

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 0031373 A1 20000602; DE 69831021 D1 20050901; DE 69831021 T2 20060420; EP 1144797 A1 20011017; EP 1144797 B1 20050727; US 2002033078 A1 20020321

DOCDB simple family (application)

FI 9800913 W 19981123; DE 69831021 T 19981123; EP 98955619 A 19981123; US 86300001 A 20010523