

Title (en)

Method and apparatus for horizontal drilling and for handling drill rods

Title (de)

Verfahren und Vorrichtung zum Horizontalbohren und zum Handhaben von Bohrstangen

Title (fr)

Procédé et dispositif pour le forage horizontal et pour la manipulation de tiges de forage

Publication

EP 0825326 A3 20010124 (DE)

Application

EP 97111051 A 19970702

Priority

DE 19633934 A 19960822

Abstract (en)

[origin: EP0825326A2] Drilling long horizontal boreholes below ground produces long horizontal bores (1) in the ground, from an initial subsurface point of desired depth. Here the drive (9) turns a string of drilling rods, making axial (3), horizontal progress in a given direction. The vertical shaft is of constant cross section. Rods (6) to be joined to, or removed from the drill string (7) are lowered to a horizontal position corresponding with the drilling axis, connection or detachment taking place in the shaft, on this axis. Also claimed is the corresponding equipment to drive the horizontal bore. This includes a derrick and rods shorter than its open internal cross section.

IPC 1-7

E21B 19/15; **E21B 19/20**; **E21B 15/00**; **E21B 7/04**

IPC 8 full level

E21B 7/04 (2006.01); **E21B 15/00** (2006.01); **E21B 19/15** (2006.01); **E21B 19/20** (2006.01)

CPC (source: EP)

E21B 7/046 (2013.01); **E21B 15/00** (2013.01); **E21B 19/155** (2013.01); **E21B 19/20** (2013.01)

Citation (search report)

- [X] GB 2276895 A 19941012 - NODIG PIPELINES LTD [GB], et al
- [X] US 4630967 A 19861223 - SOLTAU GERD [DE]

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JP2013527343A; CN103154417A; EP2728104A1; CN110230469A; US9523240B2; US9347267B2; WO03012248A3

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0825326 A2 19980225; **EP 0825326 A3 20010124**; **EP 0825326 B1 20040922**; AT E277270 T1 20041015; DE 19633934 A1 19980226; DE 19633934 C2 20020926; DE 59711937 D1 20041028

DOCDB simple family (application)

EP 97111051 A 19970702; AT 97111051 T 19970702; DE 19633934 A 19960822; DE 59711937 T 19970702