

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 B1 20040922 (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)

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Cited by

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

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