

Title (en)

Device and process of laying ceramic tubes without excavation

Title (de)

Vorrichtung und Verfahren zum grabenlosen Verlegen von Steinzeugrohren

Title (fr)

Dispositif et procédé de pose de tubes céramiques sans excavation

Publication

**EP 0860638 A1 19980826 (DE)**

Application

**EP 98102809 A 19980218**

Priority

DE 19707286 A 19970224

Abstract (en)

The device comprises a drill bar (14) with a retractable head (16) and central holding shaft (18) aligned with the drill bar and to which a counter pressure plate (32) is fixed. A number of centering devices (22) extend radially outwards from the holding shaft (18). The holding shaft comprises different individual segments (18a, 18b), which are connectable to one another by threads (20) or pin connections. The outer diameter of the retractable head (16) is equal to the outer diameter of the pipe (24) to be retracted or larger than it. On one individual segment of the holding shaft centering devices (22) are located in at least two positions axially spaced apart. Each centering device comprises a number of regulatable hydraulic cylinders which extend radially outwards from the holding shaft and can be regulated individually. The centering devices incorporate a number of leaf springs extending radially outwards from the holding shaft and having a curved shape.

Abstract (de)

Eine Vorrichtung zum Verlegen von Steinzeugrohren (24) umfaßt ein Bohrgestänge (14), an dem ein Einziehkopf (16) befestigt ist, eine zentrale Halteachse (18), die mit dem Bohrgestänge (14) fluchtet und an der eine Gegendruckplatte (32) befestigbar ist. Eine Mehrzahl von Zentriereinrichtungen (22) erstrecken sich von der Halteachse (18) radial nach außen. <IMAGE>

IPC 1-7

**F16L 1/028**; **E21B 7/04**

IPC 8 full level

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CPC (source: EP)

**E21B 7/30** (2013.01); **E21B 17/08** (2013.01); **E21B 17/10** (2013.01)

Citation (search report)

- [A] DD 118926 A1 19760320
- [A] US 4422800 A 19831227 - PARISH ROBERT O [US]
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