Title (en)

DEVICE FOR DRIVING A TUNNEL OR DRAIN PIPE

Title (de)

ANORDNUNG ZUM VORTRIEB EINES TUNNEL- ODER ABWASSERROHRS

Title (fr)

DISPOSITIF POUR LE CREUSEMENT D'UNE CANALISATION POUR TUNNEL OU CONDUITE D'EAUX USEES

Publication

EP 0759117 B1 20000126 (DE)

Application

EP 95915162 A 19950325

Priority

- DE 4415399 A 19940503
- EP 9501137 W 19950325

Abstract (en)

[origin: DE4415399A1] The invention relates to a device for driving a tunnel or drain pipe along a stretch (14) leading from a starting shaft (10) to a target shaft. The device is primarily intended for making micro or mini-tunnels in which pipe sections (62) are pressed one by one into the drive stretch against a frontal driving head (16). For spoil (32) removal there is a worm conveyor engaging in the cutting chamber (26) of the drive head, to the discharge end of which can be fitted in succession a pressuretightly sealable stone trap (36) and the pressuretightly sealable intake side (42) of a thick matter pump (44), while the pressure side of the thick matter pump (44) is connected to an extendable conveyor line (56) for the spoil.

IPC 1-7

E21B 7/20; E21D 9/00; E21D 9/12

IPC 8 full level

E21B 7/20 (2006.01); **E21D 9/00** (2006.01); **E21D 9/087** (2006.01); **E21D 9/12** (2006.01); **E21D 9/13** (2006.01)

CPC (source: EP US)

E21B 7/208 (2013.01 - EP US); **E21D 9/005** (2013.01 - EP US); **E21D 9/124** (2013.01 - EP US); **E21D 9/13** (2013.01 - EP US)

Designated contracting state (EPC)

DE NL

DOCDB simple family (publication)

DE 4415399 A1 19951109; **DE 4415399 C2 20031030**; DE 59507702 D1 20000302; EP 0759117 A1 19970226; EP 0759117 B1 20000126; EP 0759117 B2 20040908; US 5749678 A 19980512; WO 9530065 A1 19951109

DOCDB simple family (application)

DE 4415399 A 19940503; DE 59507702 T 19950325; EP 9501137 W 19950325; EP 95915162 A 19950325; US 73239596 A 19961025