

Title (en)

Method for refurbishing a tunnel drainage system

Title (de)

Verfahren zur Sanierung von Tunnelentwässerungen

Title (fr)

Procedé pour assainir un système de drainage de tunnels

Publication

EP 1258596 B1 20080326 (DE)

Application

EP 02100459 A 20020508

Priority

AT 4032001 U 20010517

Abstract (en)

[origin: EP1258596A1] Process for renovating tunnel drainage comprises drilling a bore (9) at an angle downward toward a drainage pipe (5) so that the bore opens into the drainage pipe in the region of a rinsing recess (8). A cable is run through the drainage pipe from this rinsing recess to another rinsing recess. A drill rod is inserted in the drainage pipe via the bore and the drainage pipe is rebored. The drill head is pulled by the cable so that it remains in the drainage pipe. The drill head is then exchanged for a rock scraper and the cross-section is widened in the opposite direction. A new drainage pipe is inserted in the widened cross-section. Preferred Features: The cross-section is widened twice to destroy the residue of the existing drainage pipe.

IPC 8 full level

E21F 16/02 (2006.01); **E21B 7/04** (2006.01); **E21B 7/28** (2006.01)

CPC (source: EP)

E21B 7/04 (2013.01); **E21B 7/28** (2013.01); **E21F 16/02** (2013.01)

Cited by

CN111691917A; CN112145186A; CN111322112A; CN107143284A; CN110630325A

Designated contracting state (EPC)

AT CH IT LI

DOCDB simple family (publication)

EP 1258596 A1 20021120; **EP 1258596 B1 20080326**; AT 4562 U2 20010827; AT 4562 U3 20020425; AT E390541 T1 20080415

DOCDB simple family (application)

EP 02100459 A 20020508; AT 02100459 T 20020508; AT 4032001 U 20010517