

Title (en)

Method of constructing a tunnel

Title (de)

Verfahren zur Erstellung eines Tunnels

Title (fr)

Procédé pour la construction d'un tunnel

Publication

EP 0899422 B1 20031112 (DE)

Application

EP 97810624 A 19970902

Priority

EP 97810624 A 19970902

Abstract (en)

[origin: EP0899422A1] A tunnelling system for boring through water bearing strata (15) has the head of the tunnel divided into sections by watertight doors. The actual working section (21) of the tunnel is under water at a higher pressure than that of the surrounding strata. The tunnelling machine is operated by remote control from a tunnel section (17) under air pressure which allow personnel access. The removed spoil is taken from the working head via air lock doors. The water in the working section is recirculated through cleaning systems to remove debris and to maintain a water quality which allows control of the machines.

IPC 1-7

E21D 9/00; E21D 9/06; E21D 9/08

IPC 8 full level

E21D 9/00 (2006.01); **E21D 9/06** (2006.01); **E21D 9/08** (2006.01)

CPC (source: EP US)

E21D 9/00 (2013.01 - EP US); **E21D 9/06** (2013.01 - EP US); **E21D 9/08** (2013.01 - EP US)

Cited by

CN101975066A; CN107939408A; CN109184716A; WO2023209744A1; WO2005111317A1; US7766579B2

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI

DOCDB simple family (publication)

EP 0899422 A1 19990303; **EP 0899422 B1 20031112**; AT E254238 T1 20031115; DE 59711002 D1 20031218; JP H11131972 A 19990518; US 6089791 A 20000718

DOCDB simple family (application)

EP 97810624 A 19970902; AT 97810624 T 19970902; DE 59711002 T 19970902; JP 24831498 A 19980902; US 14538998 A 19980901