

Title (en)

METHOD AND MACHINE FOR TUNNELING, A FORMWORK ELEMENT AND A FORMWORK SYSTEM

Title (de)

VERFAHREN UND MASCHINE FÜR DEN TUNNELBAU, SCHALELEMENT UND SCHALSYSTEM

Title (fr)

PROCEDE ET ENGIN UTILISES DANS LA CONSTRUCTION DE TUNNELS, ELEMENT ET SYSTEME DE COFFRAGE

Publication

EP 1311742 A1 20030521 (DE)

Application

EP 01936170 A 20010402

Priority

- DE 10040777 A 20000821
- EP 0103726 W 20010402

Abstract (en)

[origin: WO0216736A1] The invention relates to a tunneling method according to which a slot is made on the working face in the ground such that it advances while encircling the tunnel periphery. A supporting layer, which is made of a hardened material and which encircles the tunnel periphery, is formed inside said slot, whereby material is then excavated from the working face. A formwork element is slid inside the slot in order to hold the material while it hardens. A formwork element (13) for casing and bearing a supporting layer (10) in the tunnel construction can be displaceably fastened to a supporting frame (40). A formwork system has a number of these formwork elements and a supporting frame (40), to which the formwork elements are displaceably fastened. A tunneling machine has a tool (12, 70), which excavates a slot (15), said slot encircling the tunnel periphery, on the working face (14) in the ground (17), and which is displaceably fastened to a supporting frame (71) and automatically guided by a control (72) along the desired course. The machine can comprise a formwork system, whereby the supporting frame (71) of the tunneling machine is also that (40) of the formwork system.

IPC 1-7

E21D 11/10; **E21D 9/10**; **E21D 9/00**; **E21D 9/08**

IPC 8 full level

E21D 9/00 (2006.01); **E21D 9/08** (2006.01); **E21D 9/10** (2006.01); **E21D 11/10** (2006.01)

CPC (source: EP)

E21D 9/003 (2013.01); **E21D 9/0879** (2016.01); **E21D 9/1053** (2013.01); **E21D 9/108** (2013.01); **E21D 11/102** (2013.01)

Citation (search report)

See references of WO 0216736A1

Cited by

CN102808632A; CN106958448A

Designated contracting state (EPC)

ES FR IT

DOCDB simple family (publication)

WO 0216736 A1 20020228; AU 6215801 A 20020304; DE 10040777 A1 20020307; EP 1311742 A1 20030521

DOCDB simple family (application)

EP 0103726 W 20010402; AU 6215801 A 20010402; DE 10040777 A 20000821; EP 01936170 A 20010402