

Title (en)

Method for controlling a tunnel boring machine

Title (de)

Verfahren zur Steuerung einer Tunnelvortriebs-Maschine

Title (fr)

Procédé pour la commande d'une machine de creusement de tunnels

Publication

EP 0727561 B1 19990609 (DE)

Application

EP 96100823 A 19960120

Priority

DE 19504969 A 19950215

Abstract (en)

[origin: EP0727561A1] The head control involves a bore (10) which is excavated by a head (12) in advance of a working tube (14) in which an inertial sensor (16) measures angles of pitch, roll and yaw w.r.t. a fixed coordinate system. Tunnel lining sections (24,26,28) follow in succession from a starting pit and are pressed together by hydraulic rams as the head advances. The direction of the longitudinal axis of one (28) of the following sections is checked by another inertial unit (38) therein on attainment of the position in which the first measurement was made.

IPC 1-7

E21D 9/00; **E21D 9/10**

IPC 8 full level

E21D 9/00 (2006.01); **E21D 9/093** (2006.01); **E21D 9/10** (2006.01)

CPC (source: EP)

E21D 9/003 (2013.01); **E21D 9/108** (2013.01)

Cited by

CN102410024A; CN112855173A; CN102410025A

Designated contracting state (EPC)

AT BE CH DE FR GB LI NL SE

DOCDB simple family (publication)

EP 0727561 A1 19960821; **EP 0727561 B1 19990609**; AT E181139 T1 19990615; DE 19504969 A1 19960822; DE 59602134 D1 19990715

DOCDB simple family (application)

EP 96100823 A 19960120; AT 96100823 T 19960120; DE 19504969 A 19950215; DE 59602134 T 19960120