

Title (en)  
Tunnel boring machine

Title (de)  
Tunnelvortriebseinrichtung

Title (fr)  
Machine de creusement de tunnels

Publication  
**EP 1298283 B1 20040811 (DE)**

Application  
**EP 01123452 A 20010928**

Priority  
EP 01123452 A 20010928

Abstract (en)  
[origin: EP1298283A1] Device for supporting advancing and completion work in tunnel construction, especially in underground railway construction, comprises an auxiliary device (11) in the form of a working platform, a drilling system (7) and/or a spray manipulator movably arranged on rails (16) in a second plane above an extraction and loading machine (2). A machine frame (17) holding the rails is provided in the roof region (4). The machine frame is portal-shaped and moves in the longitudinal direction (6) of the tunnel. The rails are designed as side rails (18, 19) for holding the sliding carriage (25) supporting the trucks of the auxiliary device and for guiding the trucks. <??>Preferred Features: The machine frame has transverse supports (20, 21) connected via the side rails and on which the stabilized side rails are removably fixed, preferably in pairs.

IPC 1-7  
**E21D 9/10**; **E21D 11/40**; **E21D 9/12**; **E21D 11/10**

IPC 8 full level  
**E21D 9/10** (2006.01); **E21D 9/12** (2006.01); **E21D 11/10** (2006.01); **E21D 11/40** (2006.01); **E21D 9/06** (2006.01)

CPC (source: EP)  
**E21D 9/065** (2016.01); **E21D 9/1093** (2013.01); **E21D 9/12** (2013.01); **E21D 11/102** (2013.01); **E21D 11/403** (2013.01)

Cited by  
CN103541399A; CN103572788A; CN102418534A; CN103590838A; CN103821524A; CN102678141A; CN106522995A; JP2009191565A; ITMI20121426A1; DE102006049060B4; US8485608B2; WO2017144090A1; WO2005095760A1; US10851651B2; US11506054B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1298283 A1 20030402**; **EP 1298283 B1 20040811**; AT E273443 T1 20040815; DE 50103243 D1 20040916; ES 2227036 T3 20050401

DOCDB simple family (application)  
**EP 01123452 A 20010928**; AT 01123452 T 20010928; DE 50103243 T 20010928; ES 01123452 T 20010928