

Title (en)  
Driving shield tunneling machine

Title (de)  
Schildvortriebsmaschine für den Tunnelbau

Title (fr)  
Machine d'avancement de tunnel à bouclier

Publication  
**EP 1172522 B1 20040317 (DE)**

Application  
**EP 01112302 A 20010519**

Priority  
DE 10033883 A 20000712

Abstract (en)  
[origin: EP1172522A1] The fluid shield for forward tunnel working comprises a shield cover (1), at front end of which is cutting wheel and chamber formed with pressure wall partly filled with support fluid. The chamber is divided by a wall into a front disintegration chamber with the cutting wheel and a rear work chamber, which via a recess aperture formed by the wall in the shield sole area (14) is connected to the disintegration chamber. In the work chamber, the support fluid can be set at a predetermined pressure with the aid of a compressed air cushion and a corresponding control device. The floor material cut away by the cutting wheel, together with support fluid, is fed away via a stone breaker (11) and through a rake (25) by means of a conveyor conduit (12) issuing into the work chamber.

IPC 1-7  
**E21D 9/08**

IPC 8 full level  
**E21D 9/08** (2006.01); **E21D 9/087** (2006.01); **E21D 9/06** (2006.01)

CPC (source: EP)  
**E21D 9/065** (2016.01); **E21D 9/0657** (2016.01); **E21D 9/0879** (2016.01)

Cited by  
JP2019157548A; DE102023109996B3

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 1172522 A1 20020116; EP 1172522 B1 20040317**; AT E262112 T1 20040415; DE 50101684 D1 20040422; ES 2218306 T3 20041116

DOCDB simple family (application)  
**EP 01112302 A 20010519**; AT 01112302 T 20010519; DE 50101684 T 20010519; ES 01112302 T 20010519