

Title (en)  
Tunnel boring machine

Title (de)  
Tunnelvortriebsmaschine

Title (fr)  
Machine de creusement d'un tunnel

Publication  
**EP 0884452 A1 19981216 (FR)**

Application  
**EP 98400980 A 19980422**

Priority  
FR 9707121 A 19970609

Abstract (en)  
The machine comprises of a cylindrical shell (2) with a forward cutting head (10) formed by a rotary circular late with apertures bounded by radial arms carrying tools (15). A fixed vertical partition (11) behind the cutting head forms a mixing chamber (12) for the excavated material and an additional product which is removed by a screw conveyor (7). The lower part of the mixing chamber contains a detector (25) for the pressure of the material inside the chamber, linked to a conveyor screw and/or cutting head speed controller. The detector comprises a stress gauge inside a metal housing set inside the mixing chamber close to the aperture containing the end of the screw conveyor.

IPC 1-7  
**E21D 9/00**; E21D 9/06; E21D 9/10

IPC 8 full level  
**E21D 9/00** (2006.01); **E21D 9/06** (2006.01); **E21D 9/087** (2006.01); **E21D 9/10** (2006.01)

CPC (source: EP)  
**E21D 9/003** (2013.01); **E21D 9/093** (2016.01); **E21D 9/108** (2013.01)

Citation (search report)

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Designated contracting state (EPC)  
DE ES FR

DOCDB simple family (publication)  
**EP 0884452 A1 19981216**; FR 2764331 A1 19981211; FR 2764331 B1 19990820

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