

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

DOCDB simple family (application)
EP 98400980 A 19980422; FR 9707121 A 19970609