

Title (en)
Tunnelling machine.

Title (de)
Tunnelvortriebsmaschine.

Title (fr)
Machine de percement de tunnels.

Publication
EP 0667442 A1 19950816 (EN)

Application
EP 95300801 A 19950209

Priority
GB 9402665 A 19940211

Abstract (en)
A tunnelling machine, especially suitable for tunnelling through soft material, comprises a support (20), an arm (46) pivotally mounted on the support about a generally horizontal axis, and a rotary cutter (50) mounted on the arm for cutting a slot in a tunnel end face. The arm (46) is linearly extensible and retractable while the slot is being cut so that, for example, tunnels of non-circular cross-section can be cut if desired. The machine will normally include drive means (65,66) for moving the arm about the horizontal axis and for extending and retracting it, sensors (70,71) for sensing the pivotal position and length of the arm, and a controller that controls the drive means in response to the sensors so that the cutter (50) can be moved through a predetermined arcuate profile. The machine may include a concrete supply arrangement for supplying concrete into the slot behind the cutter. <IMAGE>

IPC 1-7
E21D 9/10; **E21D 9/04**

IPC 8 full level
E21D 9/04 (2006.01); **E21D 9/10** (2006.01)

CPC (source: EP)
E21D 9/04 (2013.01); **E21D 9/1053** (2013.01); **E21D 9/108** (2013.01)

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