

Title (en)

ADVANCING MACHINE FOR DRIVING TUNNELS AND GALLERIES

Publication

**EP 0101831 A3 19840516 (DE)**

Application

**EP 83106407 A 19830701**

Priority

DE 3228696 A 19820731

Abstract (en)

[origin: EP0101831A2] The invention deals with the problem of providing an advancing machine for mechanically driving tunnels and galleries by the full-section method which can advantageously be used in friable and crumbling rocks and for holing geological faults. Known machines are already equipped with extremely flat cutting heads (compared with earlier conical ones) in order to produce a suitably vertical front with the greatest possible stability of the rock mass. Difficulties nevertheless continue to occur due to the collapse of the front and of the roof. To solve the problem, the invention proposes to tilt the plane of rotation of the cutting head (2) of the advancing machine in the advancing direction, the axis of rotation of the cutting head (2) enclosing an angle of between 20 and 50, preferably 30 and 45 DEG in the vertical plane with the tunnel or gallery axis. Optionally, the region of the front slope formed by the inclined cutting head (2) can be secured by a screen (10) which supports the roof. <IMAGE>

IPC 1-7

**E21D 9/10**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] DE 945981 C 19560719 - KORFMANN GMBH MASCHF
- [X] DE 1658761 C3 19750528
- [X] DE 1935068 A1 19700305 - SMITH INTERNATIONAL
- [X] DE 2327816 B2 19751113
- [X] DE 2829053 B2 19801113
- [X] DE 2925505 A1 19810115 - HOLZMANN PHILIPP AG
- [X] AT 334856 B 19770210 - ATLAS COPCO AB [SE]
- [X] US 3486794 A 19691230 - TABOR JOHN R

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