

Title (en)

DRILLING AND BOLTING APPARATUS FOR TUNNELLING AND TUNNEL PROPPING

Title (de)

BOHR UND VERBOLZUNGSVORRICHTUNG ZUM BOHREN UND AUSBAUEN VON STRECKEN

Title (fr)

APPAREIL DE FORATION ET DE BOULONNAGE DESTINE AU CREUSEMENT ET AU SOUTÈNEMENT DE GALERIES

Publication

EP 0852658 A1 19980715 (FR)

Application

EP 96932636 A 19960923

Priority

- FR 9601482 W 19960923
- FR 9511416 A 19950925

Abstract (en)

[origin: WO9712122A1] An apparatus (1) comprising a beam (2), a bolting device (4) with a bolt magazine (10), means for inserting bolts into a borehole, a drilling jar (5), a drill (6) with a drill bit (7), and control means (15) for controlling the drilling jar (5) sliding on the beam (2). Said beam is mounted on the end of an articulated arm. The beam (2) is fixed to the end of the articulated arm, the magazine (10) is slidable relative to the beam (2), and the apparatus (1) comprises means for locating the drill bit (7) and a computer for delivering a bolt from the magazine (10) to a position aligned with a borehole, with the relative positions of the borehole and the magazine compartments being stored in a memory.

IPC 1-7

E21D 20/00

IPC 8 full level

E21D 20/00 (2006.01)

CPC (source: EP)

E21D 20/006 (2013.01)

Citation (search report)

See references of WO 9712122A1

Designated contracting state (EPC)

AT BE CH DE ES FI FR GB GR IT LI SE

DOCDB simple family (publication)

WO 9712122 A1 19970403; AU 7134396 A 19970417; CA 2230901 A1 19970403; EP 0852658 A1 19980715; FR 2739134 A1 19970328; FR 2739134 B1 19971205; NO 981331 D0 19980324; NO 981331 L 19980324; ZA 967998 B 19970529

DOCDB simple family (application)

FR 9601482 W 19960923; AU 7134396 A 19960923; CA 2230901 A 19960923; EP 96932636 A 19960923; FR 9511416 A 19950925; NO 981331 A 19980324; ZA 967998 A 19960920