

Title (en)

TARGET-DIRECTED DRILLING ROD FOR ROTATING BORING TOOLS WITH FLUSHING DUCT FOR UNDERGROUND MINING

Publication

EP 0134467 A3 19850703 (DE)

Application

EP 84107700 A 19840703

Priority

DE 3325962 A 19830719

Abstract (en)

[origin: US4596293A] A dirigible drilling head is provided with a hydraulic pulser in its rotating inner tube in the form of a spindle piston which can obstruct the flushing medium passage and is displaced by a hydraulic circuit including a hydraulic valve. The hydraulic valve is in turn actuated by a miniature electronic circuit so that a variety of input parameters from respective sensors can be delivered to the circuit and transformed into respective hydraulic pulses which are monitored by a differential pressure pickup connected to the line feeding the flushing liquid to the string.

IPC 1-7

E21B 47/12; E21B 47/02

IPC 8 full level

E21B 7/04 (2006.01); **E21B 7/06** (2006.01); **E21B 17/18** (2006.01); **E21B 44/00** (2006.01); **E21B 47/02** (2006.01); **E21B 47/022** (2006.01);
E21B 47/12 (2006.01); **E21B 47/18** (2006.01); **E21B 47/20** (2012.01)

CPC (source: EP US)

E21B 7/062 (2013.01 - EP US); **E21B 44/005** (2013.01 - EP US); **E21B 47/022** (2013.01 - EP US); **E21B 47/18** (2013.01 - EP US);
E21B 47/20 (2020.05 - EP US); **E21B 47/24** (2020.05 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE FR GB LI SE

DOCDB simple family (publication)

US 4596293 A 19860624; AT E31778 T1 19880115; AU 3085584 A 19850124; AU 567355 B2 19871119; BR 8403588 A 19850625;
CA 1222505 A 19870602; DE 3325962 A1 19850131; DE 3325962 C2 19870611; DE 3468478 D1 19880211; EP 0134467 A2 19850320;
EP 0134467 A3 19850703; EP 0134467 B1 19880107; JP H0314993 B2 19910228; JP S6037394 A 19850226; SU 1356969 A3 19871130;
ZA 845530 B 19850327

DOCDB simple family (application)

US 63243584 A 19840719; AT 84107700 T 19840703; AU 3085584 A 19840719; BR 8403588 A 19840718; CA 459298 A 19840719;
DE 3325962 A 19830719; DE 3468478 T 19840703; EP 84107700 A 19840703; JP 14870884 A 19840719; SU 3764659 A 19840718;
ZA 845530 A 19840718