

Title (en)

METHOD AND DEVICE FOR CONTROLLING AT LEAST ONE DRILLING PARAMETER FOR ROCK DRILLING

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG VON MINDESTENS EINEM BOHRPARAMETER FÜR GESTEINSBOHRUNGEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR COMMANDER AU MOINS UN PARAMÈTRE DE FORAGE POUR LE FORAGE DE ROCHES

Publication

EP 2140107 A1 20100106 (EN)

Application

EP 08741842 A 20080409

Priority

- SE 2008000255 W 20080409
- SE 0700883 A 20070411

Abstract (en)

[origin: WO2008127171A1] The present invention relates to a method and a device for controlling at least one drilling parameter when drilling into rock with a drilling machine, where a percussion pressure and/or a feed pressure of the drilling machine, which generate a percussive force and a feed force respectively, are controlled during the drilling operation. A parameter value is determined that represents the mean value of a damping pressure in a damping chamber used both for transmitting a feed force to a drill string that is connected to the drilling machine, and for damping rock reflections from this drill string; a difference between the said mean value of the determined damping pressure and a reference value of the damping pressure is also determined. The percussion pressure and/or the feed pressure of the drilling machine is then controlled on the basis of this difference.

IPC 8 full level

B25D 9/26 (2006.01); **E21B 44/00** (2006.01); **E21B 44/06** (2006.01); **E21B 44/08** (2006.01)

CPC (source: EP SE)

E21B 44/00 (2013.01 - SE); **E21B 44/06** (2013.01 - SE); **E21B 44/08** (2013.01 - EP)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008127171 A1 20081023; **WO 2008127171 A8 20090115**; EP 2140107 A1 20100106; EP 2140107 A4 20151209; EP 2140107 B1 20170315; JP 2010523857 A 20100715; JP 5309128 B2 20131009; SE 0700883 L 20081012; SE 532482 C2 20100202

DOCDB simple family (application)

SE 2008000255 W 20080409; EP 08741842 A 20080409; JP 2010502967 A 20080409; SE 0700883 A 20070411