

Title (en)

METHOD AND APPARATUS FOR DRILLING HOLE INTO BEDROCK

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BOHREN EINES LOCHS IN GRUNDGESTEIN

Title (fr)

PROCÉDÉ ET APPAREIL DE FORAGE DE TROU DANS UN SUBSTRAT ROCHEUX

Publication

**EP 2176492 A4 20151230 (EN)**

Application

**EP 08775535 A 20080704**

Priority

- FI 2008050410 W 20080704
- FI 20075523 A 20070706

Abstract (en)

[origin: WO2009007502A1] The invention relates to a method for drilling a hole in a rock with a rock drilling apparatus and to a rock drilling apparatus including a feed beam (1), a rock drill (2) moving along the feed beam (1) in the longitudinal direction thereof, a drill rod (3) connected to be rotated by the rock drill (2), a drill bit at the end of the drill rod (3) and a front support (6) locating at the rock-side end of the feed beam (1) and intended for being pushed against the rock during drilling. In the method, at the beginning of the drilling as the drill bit (4) moves in the transverse direction of the feed beam (1) such that the drill rod bends, the feed beam (1) is shifted in relation to the front support (6) in the transverse direction of the feed beam (1). The apparatus includes a transverse shifting device (7) between the front support (6) and the feed beam (1), by which the front support (6) and the feed beam (1) may be shifted in relation to one another.

IPC 8 full level

**E21B 7/02** (2006.01); **E21B 15/04** (2006.01); **E21B 44/00** (2006.01)

CPC (source: EP FI)

**E21B 7/022** (2013.01 - EP FI); **E21B 7/025** (2013.01 - EP FI); **E21B 15/006** (2013.01 - FI); **E21B 15/04** (2013.01 - FI); **E21B 44/00** (2013.01 - FI)

Citation (search report)

- [IA] GB 2103968 B 19850501 - FURUHOLMEN AS [NO]
- [A] WO 0034617 A1 20000615 - SANDVIK AB [SE], et al
- [AD] US 4979575 A 19901225 - STROEM ROLF [FI], et al
- [A] JP H09177468 A 19970708 - FURUKAWA CO LTD
- See also references of WO 2009007502A1

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 2009007502 A1 20090115**; CN 101688432 A 20100331; CN 101688432 B 20130306; EP 2176492 A1 20100421; EP 2176492 A4 20151230; EP 2176492 B1 20170315; FI 20075523 A0 20070706; FI 20075523 L 20090107; KR 20100042634 A 20100426

DOCDB simple family (application)

**FI 2008050410 W 20080704**; CN 200880023663 A 20080704; EP 08775535 A 20080704; FI 20075523 A 20070706; KR 20107002142 A 20080704