

Title (en)

METHOD AND DEVICE FOR BORING HOLES IN SOIL OR ROCK

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BOHREN VON LOECHERN IN BODEN- ODER GESTEINSMATERIAL

Title (fr)

PROCEDE ET DISPOSITIF DE FORAGE DANS DE LA TERRE OU DE LA PIERRE

Publication

**EP 1668220 B1 20071114 (DE)**

Application

**EP 04761046 A 20040928**

Priority

- AT 2004000324 W 20040928
- AT 15582003 A 20031001

Abstract (en)

[origin: WO2005031107A1] The invention relates to a method and a device for boring, especially for the percussion boring or rotary percussion boring of holes in soil or rock. According to the invention, a borehole is formed by a percussive and/or rotary movement carried out by a bore-crown (2) mounted on a boring rod (3), and a jacket or envelope tube (4, 6) is introduced into the borehole. The invention is characterised in that the extracted material is transported through at least one opening located in the region of the connection point between the bore-crown (2) and an adjacent envelope tube (4), and/or at least one through opening (24) located at a distance from the connection point between the bore-crown (2) and the envelope tube (4), in the annular region (31) defined between the outer periphery of the boring rod (3) and the inner periphery of the envelope tube (4) and the adjacent jacket tube (6), and is removed from the borehole. In this way, extracted material can be removed in a safe and reliable manner.

IPC 8 full level

**E21B 7/20** (2006.01); **E21B 17/046** (2006.01); **E21B 17/18** (2006.01); **E21B 21/12** (2006.01)

CPC (source: EP US)

**E21B 7/201** (2013.01 - EP); **E21B 17/04** (2013.01 - EP US); **E21B 21/12** (2013.01 - EP)

Cited by

CN102425382A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005031107 A1 20050407**; AT 412802 B 20050725; AT A15582003 A 20041215; AT E378496 T1 20071115; DE 502004005525 D1 20071227; EP 1668220 A1 20060614; EP 1668220 B1 20071114

DOCDB simple family (application)

**AT 2004000324 W 20040928**; AT 04761046 T 20040928; AT 15582003 A 20031001; DE 502004005525 T 20040928; EP 04761046 A 20040928