

Title (en)

DEVICE FOR DRILLING OR DRAINING HOLES IN SOIL OR ROCK

Title (de)

VORRICHTUNG ZUM BOHREN UND DRAINAGIEREN VON LÖCHERN IN BODEN- ODER GESTEINSMATERIAL

Title (fr)

DISPOSITIF DE FORAGE ET DE DRAINAGE DE TROUS REALISES DANS LE SOL OU LA ROCHE

Publication

**EP 1105618 A1 20010613 (DE)**

Application

**EP 99939259 A 19990820**

Priority

- AT 9900207 W 19990820
- AT 142998 A 19980821

Abstract (en)

[origin: WO0011302A1] The invention relates to a device (1) for the drilling, notably by percussion or rotary-percussion drilling, and draining of holes in soil or rock. A drill bit (2, 3) mounted on a drill rod (4) creates a bore hole and a jacket tube (6) is coupled to the drill rod (4) or the drill bit (2, 3). In the area adjacent to the drill bit (2, 3) the jacket tube (6) has at least one through hole which opens into an annular space embodied between the drill rod and the jacket tube. In the end area adjacent to the drill bit (2, 3) the jacket tube (6) is surrounded by at least one filter tube (7) having a plurality of through holes or slits (8) which are distributed especially evenly across its circumference. This allows for correspondingly safe and reliable drainage during boring, using simple measures.

IPC 1-7

**E21B 7/20**; **E21B 43/10**; **E21B 43/08**

IPC 8 full level

**E02D 3/10** (2006.01); **E21B 7/20** (2006.01); **E21B 43/08** (2006.01); **E21B 43/10** (2006.01)

CPC (source: EP KR US)

**E21B 7/20** (2013.01 - EP KR US); **E21B 43/10** (2013.01 - EP US); **E02D 3/10** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0011302 A1 20000302**; AT 3886 U1 20000925; AT E257213 T1 20040115; AU 5364299 A 20000314; CA 2341295 A1 20000302; CA 2341295 C 20070710; CN 1276166 C 20060920; CN 1313926 A 20010919; CZ 2001624 A3 20020213; CZ 298861 B6 20080227; DE 59908206 D1 20040205; EP 1105618 A1 20010613; EP 1105618 B1 20040102; HK 1040542 A1 20020614; HK 1040542 B 20070504; HR P20010122 A2 20020228; HR P20010122 B1 20041031; JP 2002525456 A 20020813; KR 100609938 B1 20060804; KR 20010072842 A 20010731; PL 190390 B1 20051230; PL 346164 A1 20020128; TR 200100497 T2 20011022; US 2001004025 A1 20010621; US 6431292 B2 20020813; ZA 200101362 B 20011224

DOCDB simple family (application)

**AT 9900207 W 19990820**; AT 807999 U 19991007; AT 99939259 T 19990820; AU 5364299 A 19990820; CA 2341295 A 19990820; CN 99809925 A 19990820; CZ 2001624 A 19990820; DE 59908206 T 19990820; EP 99939259 A 19990820; HK 02102048 A 20020318; HR P20010122 A 20010220; JP 2000566537 A 19990820; KR 20017002233 A 20010221; PL 34616499 A 19990820; TR 200100497 T 19990820; US 78309901 A 20010215; ZA 200101362 A 20010219