

Title (en)

METHOD AND DEVICE FOR DRILLING HOLES IN THE GROUND OR IN ROCK

Title (de)

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

Title (fr)

PROCEDE ET DISPOSITIF DE FORAGE DE TROUS DANS LE SOL OU LA PIERRE

Publication

EP 1730382 A1 20061213 (DE)

Application

EP 05714184 A 20050322

Priority

- AT 2005000102 W 20050322
- AT 5642004 A 20040330

Abstract (en)

[origin: WO2005095752A1] The invention relates to a method and device for the drilling, in particular the percussive drilling or rotary percussive drilling of holes (9) in the ground or in rock, a bore hole (9) being formed by a drill bit (1) that is mounted on a drill pipe (3), by a percussive and/or rotary movement. Several drill points (2), which can be coupled to the drill pipe (3) and driven independently of one another, are provided on the drill bit (1). According to the invention, the drill points (2) can be uncoupled from their rigid coupling to the drill pipe (3) upon completion of the drilling process and can be displaced towards the centre of the bore hole (9), thus permitting the entire drill bit (1) together with the drill points (2) and the drill pipe (3) to be simply and reliably removed upon completion of the bore hole (9).

IPC 8 full level

E21B 7/20 (2006.01); **E21B 4/16** (2006.01); **E21B 4/20** (2006.01); **E21B 17/03** (2006.01)

CPC (source: EP KR US)

E21B 4/16 (2013.01 - EP KR US); **E21B 4/20** (2013.01 - EP KR US); **E21B 7/20** (2013.01 - KR); **E21B 7/208** (2013.01 - EP US); **E21B 17/03** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2005095752A1

Cited by

CN106194017A

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2005095752 A1 20051013; AT 501696 A1 20061015; AT 501696 B1 20080315; AU 2005228906 A1 20051013; CA 2560829 A1 20051013; CN 1954130 A 20070425; EP 1730382 A1 20061213; HR P20060365 A2 20061130; JP 2007530832 A 20071101; KR 20070011405 A 20070124; US 2007023204 A1 20070201; US 7290624 B2 20071106; ZA 200608071 B 20071128

DOCDB simple family (application)

AT 2005000102 W 20050322; AT 5642004 A 20040330; AU 2005228906 A 20050322; CA 2560829 A 20050322; CN 200580010438 A 20050322; EP 05714184 A 20050322; HR P20060365 A 20061024; JP 2007505321 A 20050322; KR 20067022448 A 20061027; US 52935906 A 20060929; ZA 200608071 A 20060928