

Title (en)

A DEVICE FOR DRILLING IN EARTH-LAYERS AND ROCK

Title (de)

VORRICHTUNG ZUM BOHREN IN ERDSCHICHTEN UND GESTEIN

Title (fr)

DISPOSITIF POUR FORER DANS DES COUCHES TERRESTRES ET DE LA ROCHE

Publication

**EP 2165039 A1 20100324 (EN)**

Application

**EP 08767039 A 20080521**

Priority

- SE 2008000345 W 20080521
- SE 0701274 A 20070521

Abstract (en)

[origin: WO2008143577A1] The invention refers to a device for carrying out drilling in earth-layers and rocks during a simultaneous forcing downwards of a casing pipe (5) into the ground, whereby strokes from a countersink hammer via a bore crown or a guide (3) belonging to a bore crown (1) is provided to cooperate against a shoulder (6) situated at the lower most portion (7) of the casing pipe (5) in driving downwards of the casing pipe (5) into the bore hole made together with the bore crown (1) used. Said shoulder (6) is formed by a wearing ring (10) placed into position against an edge portion (8) within the inner mantle surface (9) of the casing pipe (5) for a direct or indirect cooperation against a shoulder surface (11) faced in a direction to the free end portion (7) of the casing pipe (5) and which is situated on the bore crown (1) or the guide (3) belonging to the bore crown (1) and also to a boring string (4) rotary connected to a drilling machine.

IPC 8 full level

**E21B 7/20** (2006.01); **E21B 10/40** (2006.01); **E21B 10/64** (2006.01); **E21B 17/14** (2006.01)

CPC (source: EP SE)

**E21B 7/20** (2013.01 - SE); **E21B 7/208** (2013.01 - EP); **E21B 10/40** (2013.01 - EP SE); **E21B 10/64** (2013.01 - SE); **E21B 17/14** (2013.01 - SE)

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**WO 2008143577 A1 20081127**; EP 2165039 A1 20100324; EP 2165039 A4 20151209; EP 2165039 B1 20171227; EP 2165039 B8 20180221; SE 0701274 L 20080513; SE 530357 C2 20080513

DOCDB simple family (application)

**SE 2008000345 W 20080521**; EP 08767039 A 20080521; SE 0701274 A 20070521