

Title (en)

Drilling device and method for producing a borehole

Title (de)

Bohrvorrichtung und Verfahren zum Erstellen eines Bohrloches

Title (fr)

Dispositif de forage et procédé de création d'un trou de forage

Publication

EP 2740882 B1 20160921 (DE)

Application

EP 12008107 A 20121204

Priority

EP 12008107 A 20121204

Abstract (en)

[origin: EP2740882A1] The device (10) has a drilling tool (40) driven in a rotating manner for removing ground material, and a container (20) receiving the removed ground material. The container has a lower feed opening introducing the removed ground material into the container. The drilling tool has a drill flight (46) arranged below the container. An inlet section (52) is provided in an inlet area to the container between the drill flight and the feed opening, where a pitch of the inlet section is increased with respect to a pitch of the drill flight. The drilling tool is designed as a conical tapered auger. The container is designed as a drilling bucket. The drill flight is designed as a multiple helix i.e. double helix. An independent claim is also included for a method for producing a borehole in the ground.

IPC 8 full level

E21B 7/00 (2006.01); **E21B 10/44** (2006.01); **E21B 27/04** (2006.01)

CPC (source: EP US)

E21B 3/00 (2013.01 - EP US); **E21B 7/006** (2013.01 - EP US); **E21B 10/44** (2013.01 - EP US); **E21B 27/04** (2013.01 - EP US)

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Designated contracting state (EPC)

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EP 2740882 A1 20140611; **EP 2740882 B1 20160921**; US 2014151126 A1 20140605; US 9376880 B2 20160628

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EP 12008107 A 20121204; US 201314094486 A 20131202