

Title (en)

DRILLING APPARATUS FOR CREATING A BOREHOLE

Title (de)

BOHRVORRICHTUNG ZUM ERSTELLEN EINER BOHRUNG

Title (fr)

APPAREIL DE FORAGE DESTINÉ À LA CRÉATION D'UN TROU DE FORAGE

Publication

EP 4222317 A1 20230809 (DE)

Application

EP 21785872 A 20210928

Priority

- DE 102020125629 A 20200930
- EP 2021076712 W 20210928

Abstract (en)

[origin: WO2022069499A1] The application relates to a drilling apparatus (10) for creating a borehole in the ground, having a basic body (11), having a drilling tool (15, 17) which is arranged at one end of the basic body (11), having a drive provided on the basic body for the drilling tool, and having a bracing device (30) which is designed for bracing the drilling apparatus (10) in a cylindrical hollow body (20) and which has at least one bracing plane (31, 32) with at least two bracing elements (33, 34) which are arranged with a first end on the basic body (11) and which have at least one bracing body (35, 36) at their second end, wherein the at least one bracing body of the bracing element is movable from a first position to a second position by means of at least one drive (37), wherein the bracing body (35, 36) provides a form-fitting connection between the basic body and the hollow body via at least one element on the inner wall of the hollow body.

IPC 8 full level

E02D 7/28 (2006.01); **E02D 17/16** (2006.01); **E02D 27/52** (2006.01); **E02F 5/00** (2006.01); **E21B 7/20** (2006.01); **E21D 1/06** (2006.01)

CPC (source: EP KR US)

E02D 7/28 (2013.01 - EP KR US); **E02D 17/16** (2013.01 - KR US); **E02D 27/52** (2013.01 - KR); **E02F 5/006** (2013.01 - EP KR); **E21B 7/208** (2013.01 - EP KR); **E21D 1/06** (2013.01 - EP KR); **E02D 17/16** (2013.01 - EP); **E02D 27/52** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102020125629 A1 20220331; **DE 102020125629 B4 20220428**; AU 2021353032 A1 20230608; AU 2021353032 A9 20241003; BR 112023005823 A2 20230502; CN 116324115 A 20230623; EP 4222317 A1 20230809; JP 2023543455 A 20231016; JP 7562850 B2 20241007; KR 20230075512 A 20230531; TW 202219353 A 20220516; US 2023332367 A1 20231019; WO 2022069499 A1 20220407

DOCDB simple family (application)

DE 102020125629 A 20200930; AU 2021353032 A 20210928; BR 112023005823 A 20210928; CN 202180067281 A 20210928; EP 2021076712 W 20210928; EP 21785872 A 20210928; JP 2023519306 A 20210928; KR 20237014719 A 20210928; TW 110136501 A 20210930; US 202118028501 A 20210928