

Title (en)

Drilling apparatus and method to form a pillar in the ground by drilling

Title (de)

Bohrgerät und Verfahren zum Erstellen einer Bohrsäule im Boden

Title (fr)

Engin de forage et méthode de construction d'une colonne forée dans le sol

Publication

EP 1849918 B1 20110309 (DE)

Application

EP 06008683 A 20060426

Priority

EP 06008683 A 20060426

Abstract (en)

[origin: EP1849918A1] Drilling device comprises a pipe hopper (30) arranged above a drill drive unit (11) and a drill pipe (6) detachably connected to a drive shaft (19) of the drill drive unit below the drill drive unit. An independent claim is also included for a method for producing a drilling column in the ground using the above drilling device. Preferred Features: The hopper is connected to a carriage (22) and rotates relative to the drill pipe. The hopper axially slides opposite the carriage. A sensor measures the level in the hopper.

IPC 8 full level

E02D 5/36 (2006.01); **E02D 3/10** (2006.01); **E02D 5/38** (2006.01)

CPC (source: EP KR US)

E02D 3/08 (2013.01 - EP KR US); **E02D 3/123** (2013.01 - EP KR US); **E02D 7/14** (2013.01 - EP US); **E02D 7/16** (2013.01 - EP KR US)

Cited by

EP3467205A1; CN111335809A; EP3299522A1; WO2020192821A1; EP3719246A1; WO2020200770A1; EP3719246B1

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1849918 A1 20071031; EP 1849918 B1 20110309; AT E501312 T1 20110315; CA 2583608 A1 20071026; CA 2583608 C 20101019; CN 101063400 A 20071031; DE 502006009051 D1 20110421; ES 2361849 T3 20110622; HK 1112946 A1 20080919; JP 2007291850 A 20071108; JP 4505479 B2 20100721; KR 100882538 B1 20090206; KR 20070105890 A 20071031; PL 1849918 T3 20110729; PT 1849918 E 20110531; RU 2007114759 A 20081027; RU 2360070 C2 20090627; SG 136915 A1 20071129; US 2007267224 A1 20071122; US 7713002 B2 20100511

DOCDB simple family (application)

EP 06008683 A 20060426; AT 06008683 T 20060426; CA 2583608 A 20070330; CN 200710101098 A 20070426; DE 502006009051 T 20060426; ES 06008683 T 20060426; HK 08101779 A 20080219; JP 2007113639 A 20070424; KR 20070040600 A 20070426; PL 06008683 T 20060426; PT 06008683 T 20060426; RU 2007114759 A 20070419; SG 2007029598 A 20070418; US 79068907 A 20070426