

Title (en)

METHOD AND DEVICE FOR DIRECTION-CONTROLLED DRILLING

Title (de)

VERFAHREN UND VORRICHTUNG ZUR RICHTUNGSGESTEUERTEN BOHRUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FORAGE

Publication

EP 2539531 A2 20130102 (DE)

Application

EP 11726684 A 20110211

Priority

- DE 102010008823 A 20100222
- DE 2011075021 W 20110211

Abstract (en)

[origin: WO2011100966A2] In a method for direction-controlled drilling, wherein a drill head (1, 26) is driven through soil or rock together with a following drill string (23), length changes of various sections of the drill head wall and/or of the drill string wall produced by a curvature of the drill head (1, 26) and/or of the drill string (23) are determined. The determined length changes allow a directional control of the drill head (1, 26). The length change can be measured by means of at least two measuring tapes (33), which originate from the drill head (1, 26) and are guided along on the drill string (23), for example, in protective sleeves (31, 32, 37, 38, 39) arranged on drill strings (25), to a measuring point in the area of a drilling starting point, in particular a starting construction pit (22).

IPC 8 full level

E21B 7/04 (2006.01); **E21B 47/024** (2006.01); **G01C 21/20** (2006.01)

CPC (source: EP)

E21B 7/04 (2013.01); **E21B 7/046** (2013.01); **E21B 47/024** (2013.01); **G01C 21/20** (2013.01)

Citation (search report)

See references of WO 2011100966A2

Cited by

CN108798645A

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

DOCDB simple family (publication)

DE 102010008823 A1 20110825; **DE 102010008823 B4 20121031**; EP 2539531 A2 20130102; WO 2011100966 A2 20110825; WO 2011100966 A3 20120202

DOCDB simple family (application)

DE 102010008823 A 20100222; DE 2011075021 W 20110211; EP 11726684 A 20110211