

Title (en)

DRILLING APPARATUS AND METHOD FOR PRODUCING A BOREHOLE FROM A FLOATING PLATFORM

Title (de)

BOHRGERÄT UND VERFAHREN ZUM ERSTELLEN EINER BOHRUNG VON EINER SCHWIMMENDEN PLATTFORM

Title (fr)

DISPOSITIF DE FORAGE ET PROCÉDÉ D'ÉTABLISSEMENT D'UN FORAGE DEPUIS UNE PLATEFORME FLOTTANTE

Publication

EP 3124740 B1 20190403 (DE)

Application

EP 15178514 A 20150727

Priority

EP 15178514 A 20150727

Abstract (en)

[origin: CA2993114A1] The invention relates to a drilling apparatus and a method for producing a bore in the bottom of a body of water from a floating platform (4) which is exposed to lifting motions, in particular a wave motion of the body of water (8), wherein the drilling apparatus comprises a drill string (10) which comprises at least one drill string element (12, 14, 15, 16) which is displaceable in the axial direction and at least one abutment strip (20, 22) which extends in the axial direction and is in engagement for torque transmission with the formation of a contact surface. The drilling apparatus further comprises a carrier device (30) along which the drill string is substantially vertically displaceable, and a drilling drive (40) for applying a torque to the drill string. The drilling apparatus according to the invention is characterized in that a control unit (50) is provided which is designed to control and reduce the torque of the drilling drive during the drilling operation to a threshold value at which the at least one drill string element is further axially displaceable to compensate for lifting motions when there is friction on the contact surface.

IPC 8 full level

E21B 41/00 (2006.01); **E21B 3/00** (2006.01); **E21B 7/128** (2006.01); **E21B 15/02** (2006.01); **E21B 17/07** (2006.01); **E21B 19/09** (2006.01); **E21B 44/00** (2006.01)

CPC (source: EP US)

E21B 3/022 (2020.05 - EP US); **E21B 7/12** (2013.01 - US); **E21B 15/02** (2013.01 - EP US); **E21B 17/07** (2013.01 - EP US); **E21B 19/09** (2013.01 - EP US); **E21B 44/00** (2013.01 - EP US); **E21B 44/04** (2013.01 - US)

Citation (examination)

- US 3716106 A 19730213 - PETERSON E
- WO 2008068445 A1 20080612 - VARCO INT [US], et al
- US 2010057279 A1 20100304 - KYLLINGSTAD AAGE [NO]

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)

EP 3124740 A1 20170201; **EP 3124740 B1 20190403**; CA 2993114 A1 20170202; CN 108138554 A 20180608; US 2018216407 A1 20180802; WO 2017016714 A1 20170202

DOCDB simple family (application)

EP 15178514 A 20150727; CA 2993114 A 20160602; CN 201680044086 A 20160602; EP 2016062491 W 20160602; US 201615746676 A 20160602