

Title (en)

RAISE BORING MACHINE WITH CHANGEABLE LENGTH, METHOD AND RAISE BORING RIG

Title (de)

TIEFBOHRMASCHINE MIT VERÄNDERLICHER LÄNGE, VERFAHREN UND TIEFBOHRGESTELL

Title (fr)

FOREUSE DE MONTAGE À LONGUEUR CHANGEABLE, PROCÉDÉ ET GABARIT DE FORAGE DE MONTAGE

Publication

EP 3066290 A2 20160914 (EN)

Application

EP 14827286 A 20140929

Priority

- SE 1351234 A 20131017
- SE 2014051129 W 20140929

Abstract (en)

[origin: WO2015057130A2] Raise boring machine (1) for boring action in at least one boring direction (R1, R2) including a main frame (2) and an auxiliary frame (3) and a plurality of support means (4), a rotator unit (5) for rotational driving a drill string (10) through a region of the main frame (2), and torque transmitting support arms (6), which are rigidly connected to the rotator unit (5) and arranged slidable on at least two support arms (4) for transfer of torque from the rotator unit (5) to the body. The support means (4) are comprised of telescopic columns (7, 8) which allow change of a distance between the main frame (2) and the auxiliary frame (3) and thereby the length of the body (L, 1). The invention also relates to a method and a raise boring rig.

IPC 8 full level

E21B 15/00 (2006.01); **E21B 3/00** (2006.01); **E21B 19/086** (2006.01); **E21D 3/00** (2006.01); **E21D 9/10** (2006.01)

CPC (source: CN EP MX SE US)

E21B 3/02 (2013.01 - CN EP MX SE US); **E21B 7/022** (2013.01 - EP MX); **E21B 15/00** (2013.01 - CN EP MX SE); **E21B 19/086** (2013.01 - EP MX); **E21D 1/00** (2013.01 - SE); **E21D 3/00** (2013.01 - SE)

Citation (search report)

See references of WO 2015057130A2

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

DOCDB simple family (publication)

WO 2015057130 A2 20150423; **WO 2015057130 A3 20150911**; AU 2014337433 B2 20190124; CA 2926972 A1 20150423; CA 2926972 C 20211026; CL 2016000899 A1 20160930; CN 105637166 A 20160601; EP 3066290 A2 20160914; MX 2016004607 A 20160706; RU 2016118770 A 20171122; SE 1351234 A1 20150418; SE 537573 C2 20150623; ZA 201602391 B 20170927

DOCDB simple family (application)

SE 2014051129 W 20140929; AU 2014337433 A 20140929; CA 2926972 A 20140929; CL 2016000899 A 20160415; CN 201480056201 A 20140929; EP 14827286 A 20140929; MX 2016004607 A 20140929; RU 2016118770 A 20140929; SE 1351234 A 20131017; ZA 201602391 A 20160408