

Title (en)

DRILL BIT WITH HYDRAULICALLY ADJUSTABLE AXIAL PAD FOR CONTROLLING TORSIONAL FLUCTUATIONS

Title (de)

BOHRMEISSEL MIT HYDRAULISCH EINSTELLBAREM AXIALKISSEN ZUR STEUERUNG VON TORSIONALEN SCHWANKUNGEN

Title (fr)

TRÉPAN COMPORTANT UN TAMPON AXIAL À RÉGLAGE HYDRAULIQUE POUR COMMANDER LES FLUCTUATIONS DE TORSION

Publication

EP 2859172 A4 20160120 (EN)

Application

EP 13804590 A 20130606

Priority

- US 201213489563 A 20120606
- US 2013044487 W 20130606

Abstract (en)

[origin: WO2013188206A1] In one aspect, a drill bit is disclosed that, in one configuration, includes one or more cutters on a surface thereon configured to penetrate into a formation, at least one pad at the surface, an actuation device configured to supply a fluid under pressure to the pad to extend the pad from the surface, and a relief device configured to drain fluid supplied to the pad to reduce the pressure on the at least one pad when the force applied on the at least one pad exceeds a selected limit.

IPC 8 full level

E21B 10/26 (2006.01); **E21B 4/02** (2006.01); **E21B 10/38** (2006.01); **E21B 17/10** (2006.01)

CPC (source: CN EP)

E21B 10/62 (2013.01 - CN EP); **E21B 47/09** (2013.01 - EP)

Citation (search report)

- [Y] US 2010071956 A1 20100325 - BEUERSHAUSEN CHAD J [US]
- [Y] WO 2007012858 A1 20070201 - SCHLUMBERGER HOLDINGS [GB], et al
- [Y] US 2007235227 A1 20071011 - KIRKHOPE KENNEDY [CA], et al
- [A] US 2010212964 A1 20100826 - BEUERSHAUSEN CHAD J [US]

Citation (examination)

- US 2008110674 A1 20080515 - JONES STEPHEN [US], et al
- See also references of WO 2013188206A1

Cited by

US11788362B2

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)

WO 2013188206 A1 20131219; BR 112014030612 A2 20170627; BR 112014030612 B1 20210302; CA 2875197 A1 20131219; CA 2875197 C 20190108; CN 104508230 A 20150408; CN 104508230 B 20170707; EP 2859172 A1 20150415; EP 2859172 A4 20160120; IN 10334DEN2014 A 20150807; MX 2014014906 A 20150610; SG 11201408079U A 20150129

DOCDB simple family (application)

US 2013044487 W 20130606; BR 112014030612 A 20130606; CA 2875197 A 20130606; CN 201380039524 A 20130606; EP 13804590 A 20130606; IN 10334DEN2014 A 20141204; MX 2014014906 A 20130606; SG 11201408079U A 20130606