

Title (en)  
DRILL BIT WITH SELF-ADJUSTING PADS

Title (de)  
BOHRMEISSEL MIT SELBSTEINSTELLENDEN AUFLAGEN

Title (fr)  
TRÉPAN ÉQUIPÉ DE PATINS AUTO-RÉGLABLES

Publication  
**EP 3207206 A1 20170823 (EN)**

Application  
**EP 15850810 A 20151016**

Priority  
• US 201414516340 A 20141016  
• US 201514864436 A 20150924  
• US 2015055944 W 20151016

Abstract (en)  
[origin: WO2016061458A1] In one aspect, a drill bit is disclosed, including: a bit body; a pad associated with the bit body; a rate control device coupled to the pad that extends from a bit surface at a first rate and retracts from an extended position to a retracted position at a second rate in response to external force applied onto the pad, the rate control device including: a piston for applying a force on the pad; a biasing member that applies a force on the piston to extend the pad at the first rate; a fluid chamber associated with the piston; and a pressure management device for controlling a fluid pressure within the fluid chamber.

IPC 8 full level  
**E21B 10/42** (2006.01); **E21B 10/43** (2006.01); **E21B 10/62** (2006.01)

CPC (source: CN EP RU US)  
**E21B 10/62** (2013.01 - CN EP RU US)

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 2016061458 A1 20160421**; CA 2964366 A1 20160421; CA 2964366 C 20190702; CN 107135658 A 20170905; CN 107135658 B 20190416; EP 3207206 A1 20170823; EP 3207206 A4 20180530; EP 3207206 B1 20210623; MX 2017004879 A 20170705; RU 2017115554 A 20181119; RU 2017115554 A3 20190304; RU 2708444 C2 20191206; SG 11201702865U A 20170530

DOCDB simple family (application)  
**US 2015055944 W 20151016**; CA 2964366 A 20151016; CN 201580060914 A 20151016; EP 15850810 A 20151016; MX 2017004879 A 20151016; RU 2017115554 A 20151016; SG 11201702865U A 20151016