

Title (en)
STEERABLE GAS TURBODRILL

Title (de)
LENKBARE GASBOHRTURBINE

Title (fr)
TURBO-FOREUSE À GAZ ORIENTABLE

Publication
EP 2817472 A1 20141231 (EN)

Application
EP 13784933 A 20130315

Priority
• US 201261643145 P 20120504
• US 2013032386 W 20130315

Abstract (en)
[origin: US2013292180A1] A gas turbodrill with an adjustable bent housing for use in a spur lateral drilling application. The gas turbodrill includes a high-speed gas turbine, a gearbox assembly, a pivoting shaft connection point, a gimbal assembly comprising a hollow ball and socket joint, a bearing assembly and drill bit assembly. The gas turbodrill gimbal assembly enabling a bend through an angle of up to 5 degrees while drilling. Springs and the application of pressure will lock the bend in place once drilling commences to facilitate lateral drilling of the spur.

IPC 8 full level
E21B 4/00 (2006.01); **E21B 4/02** (2006.01); **E21B 7/04** (2006.01); **E21B 7/06** (2006.01); **E21B 21/16** (2006.01)

CPC (source: EP US)
E21B 4/006 (2013.01 - EP US); **E21B 4/02** (2013.01 - EP US); **E21B 7/061** (2013.01 - EP US); **E21B 7/068** (2013.01 - EP US);
E21B 21/16 (2013.01 - EP 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)
US 2013292180 A1 20131107; AU 2013257160 A1 20141030; CA 2868489 A1 20131107; EP 2817472 A1 20141231; EP 2817472 A4 20160803;
WO 2013165612 A1 20131107

DOCDB simple family (application)
US 201313838807 A 20130315; AU 2013257160 A 20130315; CA 2868489 A 20130315; EP 13784933 A 20130315;
US 2013032386 W 20130315