

Title (en)
DRILL BITS HAVING ROTATING CUTTING STRUCTURES THEREON

Title (de)
BOHRMEISSEL MIT ROTIERENDEN SCHNEIDSTRUKTUREN DARAUF

Title (fr)
TRÉPANS PORTANT DES STRUCTURES DE DÉCOUPE ROTATIVES

Publication
EP 2769046 A4 20150916 (EN)

Application
EP 12841957 A 20121017

Priority

- US 201161548433 P 20111018
- US 201261665632 P 20120628
- US 201213651947 A 20121015
- US 2012060687 W 20121017

Abstract (en)
[origin: US2013098688A1] A drill bit may include a bit body rotatable about a longitudinal axis and having, at one end, a connection for securing the drill bit to a drill string and having a face opposite the connection end; and a plurality of cutting structures having at least one fixed cutting structure disposed on the bit body face and at least one cutting body rotatably attached to the face of the bit body; wherein, in a rotated view of the plurality of cutting structures into a single plane, there is substantially no radial overlap between at least one fixed cutting structure and the at least one cutting body.

IPC 8 full level
E21B 10/08 (2006.01); **E21B 10/14** (2006.01)

CPC (source: EP US)
E21B 10/14 (2013.01 - EP US); **E21B 10/22** (2013.01 - EP US); **E21B 10/25** (2013.01 - EP US); **E21B 10/26** (2013.01 - EP US);
E21B 10/46 (2013.01 - EP US); **E21B 10/52** (2013.01 - EP US); **E21B 10/627** (2013.01 - EP US)

Citation (search report)

- [X] US 2010224417 A1 20100909 - ZAHRADNIK ANTON F [US], et al
- See references of WO 2013059374A1

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)
US 2013098688 A1 20130425; CN 103998707 A 20140820; CN 103998707 B 20170510; EP 2769046 A1 20140827; EP 2769046 A4 20150916;
WO 2013059374 A1 20130425

DOCDB simple family (application)
US 201213651947 A 20121015; CN 201280062390 A 20121017; EP 12841957 A 20121017; US 2012060687 W 20121017