

Title (en)

DOWNHOLE OPTICAL ACOUSTIC TRANSDUCERS

Title (de)

OPTISCH-AKUSTISCHE WANDLER IN BOHRLÖCHERN

Title (fr)

TRANSDUCTEURS ACOUSTIQUES OPTIQUES DE FOND DE TROU

Publication

EP 2948626 A4 20160907 (EN)

Application

EP 14742955 A 20140108

Priority

- US 201313748764 A 20130124
- US 2014010717 W 20140108

Abstract (en)

[origin: US2014204712A1] A method of generating an acoustic signal in a subterranean well can include converting optical energy to acoustic energy downhole, thereby transmitting the acoustic signal through a downhole environment. A well system can include an optical acoustic transducer disposed in the well and coupled to an optical waveguide in the well, whereby the transducer converts optical energy transmitted via the optical waveguide to acoustic energy. An optical acoustic transducer for use in a subterranean well can include various means for converting optical energy transmitted via an optical waveguide to acoustic energy in the well.

IPC 8 full level

E21B 47/12 (2012.01); **E21B 47/14** (2006.01); **G01D 5/48** (2006.01); **G01H 9/00** (2006.01); **G01V 1/22** (2006.01)

CPC (source: EP US)

E21B 47/135 (2020.05 - EP US); **E21B 47/14** (2013.01 - EP US); **G01H 9/004** (2013.01 - EP US); **G01V 1/226** (2013.01 - EP US); **G01D 5/48** (2013.01 - EP US); **G01V 2210/1429** (2013.01 - EP US)

Citation (search report)

- [XY] US 2007062696 A1 20070322 - WILSON COLIN [JP], et al
- [Y] US 2012211650 A1 20120823 - JONES CHRISTOPHER M [US], et al
- [Y] US 5413045 A 19950509 - MISZEWSKI ANTONI [GB]
- See references of WO 2014116427A1

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 2014204712 A1 20140724; AU 2014209780 A1 20150611; CA 2896109 A1 20140731; EP 2948626 A1 20151202; EP 2948626 A4 20160907; MX 2015007546 A 20160301; WO 2014116427 A1 20140731

DOCDB simple family (application)

US 201313748764 A 20130124; AU 2014209780 A 20140108; CA 2896109 A 20140108; EP 14742955 A 20140108; MX 2015007546 A 20140108; US 2014010717 W 20140108