Title (en)
METHOD AND SYSTEM FOR OPERATING AND MONITORING A WELL FOR EXTRACTING OR STORING FLUID

Title (de)
VERFAHREN UND SYSTEM ZUR BEDIENUNG UND ÜBERWACHUNG EINES BRUNNENS ZUR EXTRAKTION ODER LAGERUNG EINES FLUIDS

Title (fr)
PROCÉDÉ ET SYSTÈME D'EXPLOITATION ET DE SURVEILLANCE D'UN PUITS D'EXTRACTION OÙ DE STOCKAGE DE FLUIDE

Publication
EP 3152396 B1 20181114 (FR)

Application
EP 15733792 A 20150603

Priority
• FR 1455078 A 20140604
• FR 2015051469 W 20150603

Abstract (en)
[origin: WO2015185859A1] The system for operating and monitoring a well for extracting or storing a fluid to be used, such as natural gas, comprises a tubing (20) in which the fluid to be used flows, a protective casing (60) disposed around the tubing (20) and a cement sheath (30) interposed between the casing (60) and a rock formation (70) through which the well extends. The system further comprises, outside the casing (60), between same and the cement sheath (30), a series of electronic units (110) distributed in predefined positions in a succession of planes perpendicular to the casing (60) and spaced apart axially along the casing (60). Each electronic unit (110) comprises a communication means (14) for the electronic unit to communicate with another electronic unit (110) or a surface terminal (100), a power supply unit (13) of the electronic unit (110) and at least one of the following elements: a) a detection unit comprising at least one sensor (11) for sensing a physical or chemical quantity and b) a signal processing unit (12).

IPC 8 full level
E21B 47/00 (2012.01)

CPC (source: EP US)
E21B 19/16 (2013.01 - US); **E21B 33/14** (2013.01 - US); **E21B 47/005** (2020.05 - EP US); **E21B 47/125** (2020.05 - 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

DOCDB simple family (publication)
WO 2015185859 A1 20151210; AU 2015270330 A1 20170112; BR 112016028339 A2 20170822; BR 112016028339 B1 20220503; CA 2950627 A1 20151210; EP 3152396 A1 20170412; EP 3152396 B1 20181114; FR 3021992 A1 20151211; FR 3021992 B1 20190816; PL 3152396 T3 20190430; RU 2016151426 A 20180710; RU 2016151426 A3 20181109; RU 2704416 C2 20191028; US 2017096888 A1 20170406

DOCDB simple family (application)
FR 2015051469 W 20150603; AU 2015270330 A 20150603; BR 112016028339 A 20150603; CA 2950627 A 20150603; EP 15733792 A 20150603; FR 1455078 A 20140604; PL 15733792 T 20150603; RU 2016151426 A 20150603; US 201515315872 A 20150603