

Title (en)
METHODS OF ADJUSTING THE RATE OF GALVANIC CORROSION OF A WELLBORE ISOLATION DEVICE

Title (de)
VERFAHREN ZUM EINSTELLEN DER GALVANISCHEN KORROSION EINER BOHRLOCHISOLIERUNGSVORRICHTUNG

Title (fr)
PROCÉDÉS PERMETTANT DE RÉGULER LA VITESSE DE LA CORROSION GALVANIQUE D'UN DISPOSITIF D'ISOLATION DE PUITS DE FORAGE

Publication
EP 3055486 B1 20200422 (EN)

Application
EP 14884707 A 20141203

Priority
• US 201414199965 A 20140306
• US 2014068438 W 20141203

Abstract (en)
[origin: WO2015134073A1] A wellbore isolation device comprises a first material and pieces of a second material, wherein the first material: is a metal or a metal alloy; forms a matrix of the portion of the wellbore isolation device; and partially or wholly dissolves when an electrically conductive path exists between the first material and the second material and at least a portion of the first and second materials are in contact with the electrolyte, wherein the pieces of the second material: are a metal or metal alloy; and are embedded within the matrix of the first material; wherein the first material and the second material form a galvanic couple and wherein the first material is the anode and the second material is the cathode of the couple. The isolation device can also include a bonding agent for bonding the pieces of the second material into the matrix of the first material.

IPC 8 full level
E21B 29/02 (2006.01); **E21B 33/12** (2006.01); **E21B 34/06** (2006.01)

CPC (source: EP)
E21B 29/02 (2013.01); **E21B 33/12** (2013.01); **E21B 34/06** (2013.01); **E21B 34/063** (2013.01); **E21B 34/066** (2013.01)

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 2015134073 A1 20150911; AR 099086 A1 20160629; AU 2014385212 A1 20160519; AU 2014385212 B2 20161222; CA 2933023 A1 20150911; CA 2933023 C 20190903; DK 3055486 T3 20200518; EP 3055486 A1 20160817; EP 3055486 A4 20170802; EP 3055486 B1 20200422; MX 2016005704 A 20160921

DOCDB simple family (application)
US 2014068438 W 20141203; AR P150100083 A 20150113; AU 2014385212 A 20141203; CA 2933023 A 20141203; DK 14884707 T 20141203; EP 14884707 A 20141203; MX 2016005704 A 20141203