

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

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Application

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Priority

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- 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

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