

Title (en)

Method for sealing off a water zone in a production well downhole and a sealing arrangement

Title (de)

Verfahren zur Abdichtung eines Wasserbereichs in einem Produktionsbohrloch und Abdichtungsanordnung

Title (fr)

Procédé d'étanchéification d'une zone d'eau dans un fond de trou d'un puits de production et agencement d'étanchéité

Publication

EP 2143876 A1 20100113 (EN)

Application

EP 08012548 A 20080711

Priority

EP 08012548 A 20080711

Abstract (en)

The invention relates to a sealing method for sealing off a leak in a casing (2) or for sealing of a production zone (1) where the casing (2) having a circumference and perforations (3) is situated in a borehole downhole, but with a distance to the inner wall of the borehole, creating an intervening space (4) there between. The sealing method comprises the steps of injecting a composition (5) for making a first circumferential seal (6) in the intervening space (4) at a first position (7) of the casing in one end of the production zone through holes situated along a first intersecting line (8) where a first plane intersects the circumference of the casing; filling the intervening space at a first position in a radial direction of the casing; injecting a composition (5) for making a second circumferential seal (9) in the intervening space (4) at a second position (10) of the casing in another end of the production zone through holes situated along a second intersecting line (11) where a second plane intersects the circumference of the casing; filling the intervening space at a second position in a radial direction of the casing; inserting a liner (12) into the casing (2) opposite the perforations (3) and extending between and at least partly covering both the first and the second circumferential seal; and expanding the liner until the liner is pressing against the casing whereby the liner together with the first and the second circumferential seal isolate the production zone. The composition is able to harden once injected into the intervening space.

IPC 8 full level

E21B 43/10 (2006.01)

CPC (source: EP US)

E21B 29/10 (2013.01 - EP US); **E21B 33/124** (2013.01 - EP US); **E21B 33/14** (2013.01 - EP US); **E21B 43/103** (2013.01 - EP US)

Citation (applicant)

- US 2003183397 A1 20031002 - HOFFMAN COREY E [US]
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Citation (search report)

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- [A] WO 2005088064 A1 20050922 - HALLIBURTON ENERGY SERV INC [US]
- [A] US 2003234102 A1 20031225 - BROTHERS LANCE E [US], et al
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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2143876 A1 20100113; AU 2009267995 A1 20100114; AU 2009267995 B2 20111222; BR PI0915816 A2 20190409; CA 2725284 A1 20100114; CN 102089495 A 20110608; MX 2010013272 A 20110218; US 2011121516 A1 20110526; WO 2010004036 A1 20100114

DOCDB simple family (application)

EP 08012548 A 20080711; AU 2009267995 A 20090710; BR PI0915816 A 20090710; CA 2725284 A 20090710; CN 200980127218 A 20090710; EP 2009058847 W 20090710; MX 2010013272 A 20090710; US 73741209 A 20090710