

Title (en)

A SYSTEM AND METHOD OF CLEANING AN ANNULAR AREA IN A WELL

Title (de)

SYSTEM UND VERFAHREN ZUR REINIGUNG EINES RINGFÖRMIGEN BEREICHS IN EINEM BOHRLOCH

Title (fr)

SYSTÈME ET PROCÉDÉ DE NETTOYAGE D'UNE ZONE ANNULAIRE DANS UN PUIT

Publication

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Application

EP 18867925 A 20181017

Priority

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Abstract (en)

[origin: WO2019078728A2] A system and method of cleaning an annular area in a well (2), comprising: - a first pipe body (4) and a surrounding second pipe body (6); - a first annulus (8) containing a clean fluid (10), and a surrounding second annulus (12) containing contaminants (14); - a plurality of sets of holes (22) formed through the pipe bodies (4, 6) and dispersed along a longitudinal section (L), each set of holes (22) comprising holes (22a, 22b) aligned substantially radially; and - a washing tool (26) positioned in the first pipe body (4) and comprising spaced apart flow guides (28a, 28b) configured to enclose of a limited number of sets of holes (22), the flow guides (28a, 28b) cooperating with an inside of the first pipe body (4) to form a confined pressure compartment (30) for the limited number of sets of holes (22) when operational in the well (2).

IPC 8 full level

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Citation (search report)

- [Y] WO 2012096580 A1 20120719 - HYDRA SYSTEMS AS [NO], et al
- [XY] WO 2013133719 A1 20130912 - HYDRA SYSTEMS AS [NO]
- [A] US 5372198 A 19941213 - NORTH JOHN C [US], et al
- [A] US 2016010423 A1 20160114 - MYHRE MORTEN [NO], et al
- [A] EP 2805010 A1 20141126 - HALLIBURTON ENERGY SERV INC [US]
- [A] US 2512801 A 19500627 - KINNEY WESLEY R, et al
- [A] US 4899821 A 19900213 - CASIDA KENNETH L [US]
- [A] US 3396798 A 19680813 - ERWIN BURNS, et al
- See also references of WO 2019078728A2

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