

Title (en)
ENCAPSULATING AN ELECTRIC SUBMERSIBLE PUMP CABLE IN COILED TUBING

Title (de)
VERKAPSELUNG DES KABELS EINER ELEKTRISCHEN TAUCHPUMPE IN EINEM AUFROLLBAREN ROHRSTRANG

Title (fr)
ENCAPSULATION D'UN CÂBLE DE POMPE IMMERGÉE ÉLECTRIQUE DANS UN TUBE SPIRALÉ

Publication
EP 2941524 A4 20160824 (EN)

Application
EP 13869986 A 20131231

Priority
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• US 2013078565 W 20131231

Abstract (en)
[origin: US2014190706A1] An electric submersible pump (ESP) cable encapsulated in coiled tubing is provided. In an example process, ESP cable is drawn through coiled tubing. Liquid filler that cures into a supportive solid matrix is pumped into the coiled tubing. The solid matrix may be a rubberized filler or a closed-cell foam. Additives in the liquid filler can compensate for thermal expansion during operation of the ESP, or decrease overall weight of the solid matrix, or swell in the presence of oil, water, salt, or gas to seal a hole in the coiled tubing. The coiled tubing may be formed and seam-welded around the ESP cable from flat steel strip. A long coiled tubing resistant to stretch for deep wells may be produced by providing extra ESP cable for slack before the liquid filler cures into solid matrix. The coiled tubing may be clad with corrosion-resistant alloy for corrosive wells.

IPC 8 full level
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Citation (search report)
• [X] US 2008264651 A1 20081030 - ALI MOHAMMAD ATHAR [SA], et al
• [A] US 2011036560 A1 20110217 - VAIL III WILLIAM BANNING [US], et al
• [A] US 4326094 A 19820420 - HUNN REGINALD A
• See references of WO 2014107470A2

Designated contracting state (EPC)
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