

Title (en)

INFLOW CONTROL DEVICE, AND METHOD FOR COMPLETING A WELLBORE TO DECREASE WATER INFLOW

Title (de)

ZUFLUSSKONTROLLVORRICHTUNG UND VERFAHREN ZUM ABSCHLUSS EINES BOHRLOCHES ZUR VERMINDERUNG DES WASSERZUFLUSSES

Title (fr)

DISPOSITIF DE COMMANDE DE DÉBIT ENTRANT, ET PROCÉDÉ DE COMPLÉTION D'UN Puits DE FORAGE POUR RÉDUIRE LE DÉBIT ENTRANT D'EAU

Publication

EP 3853439 A1 20210728 (EN)

Application

EP 19746270 A 20190711

Priority

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Abstract (en)

[origin: US2020095851A1] A subsurface autonomous inflow control device for a wellbore, the inflow control device comprising a tubular base pipe having one or more through-openings for receiving production fluids within a wellbore. The inflow control device further includes a housing residing along an outer diameter of the tubular base pipe and covering the one or more through-openings. The housing comprises a fluid inlet configured to receive production fluids from a subsurface formation, and a hydrophobic material positioned within the housing between the fluid inlet and the through-openings. The hydrophobic material provides a network of pores that permits a flow of hydrocarbon fluids there through en route to the through-openings, but the hydrophobic material blocks the passage of aqueous fluids there through. A method for completing a wellbore having the porous, hydrophobic inflow control device is also provided.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2020060658A1

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