

Title (en)

Method and apparatus for stimulation of multiple formation intervals

Title (de)

Verfahren und Vorrichtung zum Stimulieren und Manipulieren von Formationsabschnitten

Title (fr)

Procédé et dispositif de stimulation de plusieurs intervalles de formation

Publication

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Application

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Abstract (en)

[origin: WO0161146A1] The invention provides an apparatus and method for perforating and treating multiple intervals of one or more subterranean formations (86) intersected by a wellbore by deploying a bottom-hole assembly having a perforating device (134) and at least one sealing mechanism (120) within said wellbore. The perforating device (134) is used to perforate the first interval to be treated. Then the bottom-hole assembly is positioned within the wellbore such that the sealing mechanism (120), when actuated, establishes a hydraulic seal in the wellbore to positively force fluid to enter the perforations (230, 231) corresponding to the first interval to be treated. A treating fluid is then pumped down the wellbore and into the perforations (230, 231) created in the perforated interval. The sealing mechanism (120) is released, and the steps are then repeated for as many intervals as desired, without removing the bottom hole assembly from said wellbore.

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Cited by

CN107725010A; CN109690020A; AU2017338778B2; EA039092B1; US11261684B2; WO2018067598A1; US10731430B2; WO2019194838A1; WO2020243172A1

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