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(54) **Title:** FLUID INJECTION SYSTEM

(57) **Abstract:** A fluid injection system comprising at least one side pocket mandrel having a tubular side wall which encloses a main passage and side pocket, the tubular side wall having an interior surface and an exterior surface, the system further comprising a one-way valve mounted in the side pocket, wherein the side pocket mandrel has a first inlet passage which provides a first flow path for flow of fluid between the exterior surface of the tubular side wall and an inlet of the one-way valve, a second inlet passage which provides a second flow path for flow of fluid between the exterior surface of the tubular side wall and the inlet of the one-way valve, a screen which is configured to prevent solid particles from entering the inlet of the one-way valve via the first inlet passage, and a closure device which is arranged to block the second inlet passage when fluid pressure at the exterior surface of the tubular side wall is below a predetermined level and which is configured to move to an open configuration to allow flow of fluid along the second inlet passage when fluid pressure at the exterior surface of the tubular side wall is at or above the predetermined level (Figure 1)

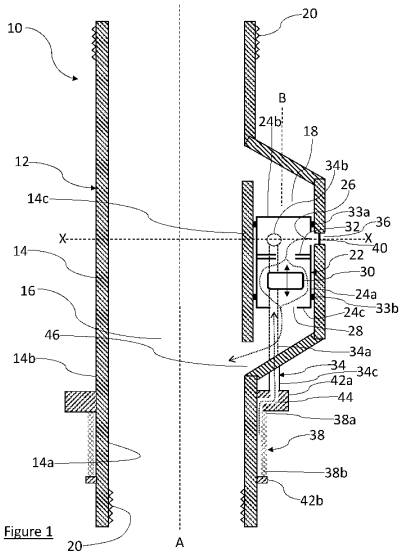



Figure 1

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