

Title (en)

FLUID OPTIMIZATION AND CONTAMINANT CONTAINMENT DEVICE AND METHOD USING DISPLACEABLE PLUG

Title (de)

FLUIDOPTIMIERUNGS- UND KONTAMINANZIENEINDÄMMUNGSVORRICHTUNG UND VERFAHREN MIT EINEM VERSCHIEBBAREN STOPFEN

Title (fr)

DISPOSITIF D'OPTIMISATION DE FLUIDES ET DE CONFINEMENT DE CONTAMINANTS ET PROCÉDÉ UTILISANT UN BOUCHON DÉPLAÇABLE

Publication

EP 4158303 A4 20240522 (EN)

Application

EP 21818838 A 20210601

Priority

- US 202063033196 P 20200601
- US 2021035294 W 20210601

Abstract (en)

[origin: WO2021247609A1] A fluid sample optimization device for optimizing a fluid sample collected by a fluid collection device from a fluid source, where a first portion of the fluid sample potentially has contaminants. The device includes an inlet configured to connect with the fluid source, an outlet configured to connect with the fluid collection device, a sample path connected between the inlet and the outlet, and a contaminant containment reservoir connected between the inlet and the outlet. The contaminant containment reservoir has an air permeable fluid resistor proximate the outlet, and is arranged to receive the first portion of the fluid sample from the fluid source to displace air therein, such that upon receipt of the first portion of the fluid sample and containment of the contaminants in the contaminant containment reservoir, subsequent portions of the fluid sample are conveyed by the sample path from the inlet to the outlet when subsequent pressure differentials are applied between the inlet and the outlet. The fluid sample optimization device can further include a displaceable plug between the inlet and the sample path, that can be displaced by the subsequent pressure differentials to allow the subsequent portions of the fluid to be conveyed through the sample path.

IPC 8 full level

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Citation (search report)

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- See also references of WO 2021247609A1

Designated contracting state (EPC)

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