

Title (en)

REUSABLE CARTRIDGE SYSTEMS, DEVICES, AND METHODS

Title (de)

WIEDERVERWENDBARE KARTUSCHENSYSTEME, VORRICHTUNGEN UND VERFAHREN

Title (fr)

SYSTÈMES DE CARTOUCHES RÉUTILISABLES, DISPOSITIFS ET PROCÉDÉS

Publication

**EP 4297609 A1 20240103 (EN)**

Application

**EP 22707582 A 20220222**

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Abstract (en)

[origin: WO2022182669A1] Formulation delivery systems, formulation delivery devices, and formulation cartridges for the same are provided. Formulation delivery systems include a reusable handle, a formulation dispensing assembly, and a controller. The formulation dispensing assembly includes a reciprocating nozzle assembly and a pump. The reciprocating nozzle assembly is fluidically-coupleable to the formulation cartridge or the cleaning cartridge received within the reusable handle. Formulation delivery devices include a reusable handle configured to receive a formulation cartridge therein, and a formulation dispensing assembly disposed in the reusable handle. The formulation dispensing assembly includes fluid conduits, a pump fluidically connected to the fluid conduits, a reciprocating nozzle assembly, and a controller. Formulation cartridges include a reusable cartridge body, a valve frame, and a disposable refill packet reversibly-coupleable to the reusable cartridge body. The disposable refill packet includes a formulation packet and a body portion configured for insertion into the reusable cartridge body.

IPC 8 full level

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