

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.

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