

Title (en)

HIGH-TEMPERATURE SHORT-TIME TREATMENT DEVICE, SYSTEM, AND METHOD

Title (de)

HOCHTEMPERATUR-KURZZEITBEHANDLUNGSVORRICHTUNG, -SYSTEM UND -VERFAHREN

Title (fr)

DISPOSITIF, SYSTÈME ET PROCÉDÉ DE TRAITEMENT À HAUTE TEMPÉRATURE DE COURTE DURÉE

Publication

**EP 4189317 A1 20230607 (EN)**

Application

**EP 21848608 A 20210713**

Priority

- US 202063057020 P 20200727
- US 2021041417 W 20210713

Abstract (en)

[origin: US2022026160A1] A dual path heat exchanger integrated as a single unit able to process fluid stream through a continuous, single-use high temperature short time process. The heat exchanger contains both a heating section and a cooling section in the same unit. In one embodiment, the heating and cooling sections (which may be formed separately for other uses) are formed as a plate and frame structure with a thermally conductive thin film or foil forming the physical barrier between the process stream flow path and the thermal medium (heating or cooling) flow path. The film/foil renders the heat exchanger suitable for single-use and/or to be disposable. A manifold, which also may be formed as a single unit, may be used to transfer fluid flow between the sections of the heat exchanger, and/or to transfer fluid into and out of the system formed by the heat exchanger and manifold.

IPC 8 full level

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CPC (source: EP US)

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**F28D 21/0001** (2013.01 - EP); **F28F 3/10** (2013.01 - US); **F28F 9/0075** (2013.01 - US); **F28F 9/0251** (2013.01 - EP);  
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Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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