

Title (en)

PLATE-AND-SHELL HEAT EXCHANGER AND A HEAT TRANSFER PLATE FOR A PLATE-AND-SHELL HEAT EXCHANGER

Title (de)

PLATTEN-KAPSEL-WÄRMETAUSCHER UND WÄRMEÜBERTRAGUNGSPLATTE FÜR PLATTEN-KAPSEL-WÄRMETAUSCHER

Title (fr)

ÉCHANGEUR DE CHALEUR À PLAQUE ET ENVELOPPE ET PLAQUE DE TRANSFERT DE CHALEUR POUR ÉCHANGEUR DE CHALEUR À PLAQUE ET ENVELOPPE

Publication

**EP 4001818 A1 20220525 (EN)**

Application

**EP 21208296 A 20211115**

Priority

DK PA202070756 A 20201116

Abstract (en)

A plate-and-shell heat exchanger comprising a shell and a plurality of heat transfer plates within the shell, said plates forming fluidly connected first cavities for providing a first fluid flow path for a first fluid flow and the shell forming a second cavity in which the plates are arranged and providing a second fluid flow path for a second fluid flow separated from the first fluid flow path by the plates, wherein the first fluid flow path leads through inlet and outlet plate openings between adjacent plates and the second fluid flow path leads through second inlet and outlet openings of the shell, wherein an opening is positioned in a first distribution area, and where a central transferring regions extend between the openings, wherein a furrow is formed between the central heat transferring region and the first distribution area.<sup>7</sup>

IPC 8 full level

**F28D 9/00** (2006.01); **F28F 9/02** (2006.01)

CPC (source: CN EP)

**F28D 9/00** (2013.01 - CN); **F28D 9/0006** (2013.01 - EP); **F28D 9/0043** (2013.01 - EP); **F28F 3/046** (2013.01 - CN EP); **F28F 9/00** (2013.01 - CN); **F28F 9/0265** (2013.01 - EP)

Citation (search report)

- [XY] US 2016025007 A1 20160128 - HONNORAT OLIVIER [FR], et al
- [X] FR 3079605 A1 20191004 - AIRBUS HELICOPTERS [FR]
- [Y] US 4635714 A 19870113 - ALMQVIST CHRISTER [SE], et al
- [A] US 10234212 B2 20190319 - NOEL-BARON OLIVIER [FR]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 4001818 A1 20220525**; CN 114508955 A 20220517

DOCDB simple family (application)

**EP 21208296 A 20211115**; CN 202111335797 A 20211111