

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 4365535 A1 20240508 (EN)

Application
EP 22864582 A 20220830

Priority
• JP 2021141672 A 20210831
• JP 2022032653 W 20220830

Abstract (en)
This heat exchanger comprises: a pair of plates that face each other; and an inner fin which is provided between the plates and in which a fluid circulates. The inner fin has a plurality of offset fins which are arranged side by side in the flowing direction of the fluid and are provided such that the positions thereof are mutually offset in the width direction orthogonal to the flowing direction. The offset fins include: plate joint parts which are joined to the plates and have steps formed in the flowing direction; fin parts provided along the opposing direction of the plates and connected to the plate joint parts; and reception slopes which are provided to the plate joint parts obliquely to the flowing direction and which receive the fluid from the steps.

IPC 8 full level
F28F 3/06 (2006.01); **F28D 9/00** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP)
F28D 9/00 (2013.01); **F28D 9/0062** (2013.01); **F28F 1/40** (2013.01); **F28F 3/027** (2013.01); **F28F 3/06** (2013.01); **F28F 3/08** (2013.01); **F28F 13/12** (2013.01)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4365535 A1 20240508; JP 2023035071 A 20230313; WO 2023033000 A1 20230309

DOCDB simple family (application)
EP 22864582 A 20220830; JP 2021141672 A 20210831; JP 2022032653 W 20220830