

Title (en)

HEAT EXCHANGE PLATE AND HEAT EXCHANGER CONTAINING SAME

Title (de)

WÄRMETAUSCHERPLATTE UND WÄRMETAUSCHER DAMIT

Title (fr)

PLAQUE D'ÉCHANGE DE CHALEUR ET ÉCHANGEUR DE CHALEUR LA COMPRENANT

Publication

**EP 4023997 B1 20240508 (EN)**

Application

**EP 20885438 A 20201105**

Priority

- CN 201911077938 A 20191106
- CN 2020126857 W 20201105

Abstract (en)

[origin: EP4023997A1] Embodiments of this application provide a heat exchange plate and a heat exchanger including the heat exchange plate. The heat exchange plate includes: a base board, where the base board includes a first edge along a first direction and a second edge along a second direction, and the first direction and the second direction are different directions; first flow guiders, where the first flow guiders are disposed on the base board, and are configured to guide flowing of air flows, where a plurality of the first flow guiders are arranged along the first direction at intervals into one column, and a plurality of columns of the first flow guiders are arranged along the second direction at intervals; and supporting structures, where the supporting structures are disposed on the base board, the supporting structures extend along the first direction, and the supporting structures and each column of the first flow guiders are arranged alternately along the second direction at intervals. The heat exchange plate provided in this application can guide air passing through the heat exchanger, to enable air flows to flow along a flow guide direction, thereby improving heat exchange efficiency of the heat exchanger for the air flows.

IPC 8 full level

**F28F 3/06** (2006.01); **F28D 9/00** (2006.01)

CPC (source: CN EP US)

**F28D 9/00** (2013.01 - CN EP); **F28D 9/0081** (2013.01 - US); **F28F 3/027** (2013.01 - US); **F28F 3/042** (2013.01 - EP); **F28F 3/048** (2013.01 - EP); **F28F 3/06** (2013.01 - CN US); **F28D 9/0031** (2013.01 - EP); **F28D 9/0062** (2013.01 - EP); **F28D 21/0014** (2013.01 - EP); **F28D 2021/0031** (2013.01 - EP); **F28F 3/044** (2013.01 - EP); **F28F 3/046** (2013.01 - EP); **F28F 3/083** (2013.01 - EP); **F28F 2215/04** (2013.01 - EP); **F28F 2250/02** (2013.01 - EP)

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US 2019226771 A1 20190725 - GRANRYD ERIK GUSTAV ULRIK [SE], et al

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**EP 4023997 A1 20220706**; **EP 4023997 A4 20221214**; **EP 4023997 B1 20240508**; CN 110926256 A 20200327; CN 110926256 B 20220308; US 2022205738 A1 20220630; WO 2021088940 A1 20210514

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