

Title (en)

A HEAT EXCHANGER PLATE, AND A PLATE HEAT EXCHANGER

Title (de)

WÄRMETAUSCHERPLATTE UND PLATTENWÄRMETAUSCHER

Title (fr)

PLAQUE D'ÉCHANGEUR DE CHALEUR ET ÉCHANGEUR DE CHALEUR À PLAQUES

Publication

**EP 4365532 A1 20240508 (EN)**

Application

**EP 22204918 A 20221101**

Priority

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Abstract (en)

A heat exchanger plate (1) for a plate heat exchanger for heat exchange between at least a first fluid and a second fluid, the heat exchanger plate (1) having a quadrilateral shape with two opposite parallel primary sides (5) and two opposite parallel secondary sides (6), and a longitudinal central axis (x) being parallel with the primary sides (5). The heat exchanger plate (1) comprising a heat exchanging area having a corrugation of ridges and valleys having a longitudinal extension defining an inclination in relation to the longitudinal central axis (x), four portholes (11, 12, 13, 14), of which at least two are located at a respective corner of the heat exchanger plate (1) extending through the heat exchanger plate (1), a first set of ridges (8a) and valleys (9a) and a second set of ridges (8b) and valleys (9b), wherein the longitudinal extension of the first set of ridges and valleys (8a, 9a) define a first angle ( $\alpha$ ) in relation to a first primary side (5a) and the longitudinal extension of the second set of ridges and valleys (8b, 9b) define a second angle ( $\beta$ ) in relation to a second primary side (5b), wherein an intersection between the first set of ridges and valleys (8a, 9a) and the second set of ridges and valleys (8b, 9b) being defined as a transition area (10) comprising a curvature of ridges and valleys being concentric with a porthole.

IPC 8 full level

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- [A] WO 2018215426 A1 20181129 - SWEP INT AB [SE]
- [A] EP 2410278 A1 20120125 - MITSUBISHI ELECTRIC CORP [JP]
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Designated contracting state (EPC)

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