

Title (en)
PLATE TYPE HEAT EXCHANGER

Title (de)
PLATTENWÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR DE TYPE À PLAQUES

Publication
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Application
EP 17910745 A 20170525

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Abstract (en)
[origin: EP3647710A1] Provided in the present invention is a plate heat exchanger capable of improving performance for transferring heat to heat transfer portions within a flow channel through which a second fluid medium that causes phase change as a result of its heat exchange with a first fluid medium is circulated. In the present invention, a first flow channel through which the first fluid medium is circulated is formed between first surfaces of each two adjacent heat transfer plates, and a second flow channel through which the second fluid medium is circulated is formed between second surfaces of each two adjacent heat transfer plates. Each of the first surfaces of the heat transfer portions includes a plurality of first ridges arranged at intervals from each other, a barrier ridge that is lower than the first ridges and extends in a direction intersecting with the first ridges, and a plurality of first valleys each formed between each two adjacent first ridges. Each of the second surfaces of the heat transfer portions includes a plurality of second valleys being in a front-back relationship with the first ridges. The barrier ridge on each of the two adjacent heat transfer plates has a longitudinal dimension set to be shorter than the entire length in a third direction of the heat transfer portion, and the barrier ridge on one of the two adjacent heat transfer plates is arranged at a position displaced in at least one of a second direction or the third direction, and crosses and abuts against the first ridges of the opposed heat transfer plate.

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