

Title (en)

PLATE-TYPE HEAT EXCHANGER AND REFRIGERATION CYCLE DEVICE WITH SAME

Title (de)

PLATTENWÄRMETAUSCHER UND KÄLTEKREISLAUFVORRICHTUNG DAMIT

Title (fr)

ÉCHANGEUR DE CHALEUR DU TYPE À PLAQUES ET DISPOSITIF DE CYCLE DE RÉFRIGÉRATION LE COMPORTEMENT

Publication

**EP 2977704 B1 20200617 (EN)**

Application

**EP 13878608 A 20130322**

Priority

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Abstract (en)

[origin: EP2977704A1] The present invention provides a plate-type heat exchanger in which first flow passages A and second flow passages B are alternately formed between a plurality of heat transfer plates 1 provided at predetermined intervals, and the first flow passages A and the second flow passages B are each provided with an inner fin 2, wherein: each of the plurality of heat transfer plates 1 includes an upstream-side passage hole 20a serving as an inlet of a first fluid to the first flow passage A or as an inlet of a second fluid to the second flow passage B, and a downstream-side passage hole 20b serving as an outlet of the first fluid from the first flow passage A or as an outlet of the second fluid from the second flow passage B; a sheet-like flow straightening plate 30 is disposed in each of the first flow passages A and the second flow passages B so as to separate between the upstream-side passage hole 20a and the inner fin 2; and the flow straightening plate 30 has a plurality of opening parts 31 serving as a flow passage for the first fluid or the second fluid, and opening areas of the plurality of opening parts 31 are designed so that a flow passage resistance decreases from a side on which a distance to the upstream-side passage hole 20a is smaller toward a side on which the distance is larger in the flow straightening plate 30.

IPC 8 full level

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