

Title (en)

DOUBLE-TUBE HEAT EXCHANGER AND REFRIGERATING CYCLE DEVICE

Title (de)

DOPPELROHR-WÄRMETAUSCHER UND KÄLTEKREISLAUFVORRICHTUNG

Title (fr)

ÉCHANGEUR DE CHALEUR À DEUX TUBES ET DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication

**EP 2916091 B1 20191023 (EN)**

Application

**EP 13843545 A 20130903**

Priority

- JP 2012075530 W 20121002
- JP 2013073688 W 20130903

Abstract (en)

[origin: EP2916091A1] A double pipe heat exchanger includes an inner pipe 2 inside which a first fluid passes, an outer pipe 1 that has a diameter larger than the diameter of the inner pipe 2 and that covers the inner pipe 2, and second fluid passes through a space between the outer pipe 1 and the inner pipe 2, and a heat transfer area enlargement pipe 3 that is provided in the space and that has a projection-depression shape in which a length in the pipe-circumferential direction of inner contact portions 6 to be contact areas with the outer wall of the inner pipe 2 is made to be larger than a length in the pipe-circumferential direction of outer contact portions 7 to be contact areas with the inner wall of the outer pipe 1, and in addition, fin portions between the outer contact portion 7 and the inner contact portion 6 that traverse the space in a pipe cross section come into contact with the outer wall of the inner pipe 2 and the inner wall of the outer pipe 1 in oblique directions.

IPC 8 full level

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CPC (source: EP US)

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