

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 A4 20160810 (EN)

Application
EP 13843545 A 20130903

Priority
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• 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)
F25B 40/00 (2013.01 - EP US); **F28D 7/106** (2013.01 - EP US); **F28F 1/40** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F28D 2021/0068** (2013.01 - EP US); **F28F 1/105** (2013.01 - EP US)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2014054370A1

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