

Title (en)

RADIATOR AND REFRIGERATING CYCLE DEVICE

Title (de)

HEIZKÖRPER UND KÜHLKREISLAUFVORRICHTUNG

Title (fr)

RADIATEUR ET DISPOSITIF DE CYCLE DE RÉFRIGÉRATION

Publication

EP 3002537 B1 20190619 (EN)

Application

EP 15186759 A 20150924

Priority

JP 2014198882 A 20140929

Abstract (en)

[origin: EP3002537A1] A gas cooler (19) which radiates heat of refrigerant boosted up to supercritical pressure includes: a plurality of fin plates (30) vertically extending and arranged at a predetermined interval; and a plurality of refrigerant channels (34A, 34B, 34C) formed in parallel by heat transfer tube bundles (33) inserted into the fin plates (30) in multiple stages. The refrigerant channels (34A, 34B, 34C) respectively include inlet heat transfer tubes (40A, 40B, 40C) disposed at an upper portion of the fin plates (30), outlet heat transfer tubes (42A, 42B, 42C) disposed at a lower portion of the fin plates (30), and first intermediate heat transfer tubes (41A1, 41B1, 41C1) and second intermediate heat transfer tubes (41A2, 41B2, 41C2) disposed between the inlet heat transfer tubes (40A, 40B, 40C) and the outlet heat transfer tubes (42A, 42B, 42C).

IPC 8 full level

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CPC (source: EP)

F25B 39/04 (2013.01); **F28D 1/0475** (2013.01); **F28F 1/32** (2013.01); **F25B 9/008** (2013.01); **F25B 2309/061** (2013.01)

Cited by

WO2018148760A1; CN110260416A; RU2769608C2; CN110382977A; EP3580505A4

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 3002537 A1 20160406; **EP 3002537 B1 20190619**; JP 2016070566 A 20160509; JP 6456088 B2 20190123

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