

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication
EP 3115730 B1 20200527 (EN)

Application
EP 14884296 A 20140307

Priority
JP 2014056025 W 20140307

Abstract (en)
[origin: EP3115730A1] Provided is a refrigeration cycle apparatus, including a load-side heat exchanger (15) and a heat source-side heat exchanger (13) each including tubes with inner grooves, each of the tubes having inner grooves (23) extending obliquely with respect to a direction of a tube axis, and inner fins (24) each being formed between the inner grooves (23). In the refrigeration cycle apparatus, at least two of a first relationship, a second relationship, and a third relationship are satisfied: the first relationship of $\pm 1 > \pm 2$; the second relationship of $H1 > H2$; and the third relationship of $\alpha_1 < \alpha_2$, where ± 1 and ± 2 represent lead angles of the inner grooves (23) of the load-side heat exchanger (15) and the heat source-side heat exchanger (13), respectively, $H1$ and $H2$ represent heights of the inner fins (24) of the load-side heat exchanger (15) and the heat source-side heat exchanger (13), respectively, and α_1 and α_2 represent apex angles of the inner fins (24) of the load-side heat exchanger (15) and the heat source-side heat exchanger (13), respectively.

IPC 8 full level
F25B 13/00 (2006.01); **F25B 39/00** (2006.01); **F28F 1/06** (2006.01); **F28F 1/40** (2006.01); **F28F 1/42** (2006.01); **F28D 21/00** (2006.01)

CPC (source: EP)
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