

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication
EP 2746699 A4 20150408 (EN)

Application
EP 11871146 A 20110819

Priority
JP 2011004638 W 20110819

Abstract (en)
[origin: EP2746699A1] A refrigeration cycle apparatus is obtained which allows high accurate estimation of the composition of a refrigerant even when the detection accuracy of a used sensor is the same as that in an existing one. If an error equivalent to that for a first inlet temperature sensor 12 is observed in an outlet temperature TO that is a temperature detected by a first outlet temperature sensor 13, a constant-temperature line in a superheated gas state is sufficiently inclined as compared to a constant-temperature line in a two-phase gas-liquid refrigerant, and an enthalpy error Δh_{TO} caused with the error is sufficiently smaller than that in the case of a temperature sensor 103 in a related art example.

IPC 8 full level
F25B 1/00 (2006.01); **F25B 9/00** (2006.01); **F25B 49/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)
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Citation (search report)
• [I] EP 0693663 A2 19960124 - MITSUBISHI ELECTRIC CORP [JP]
• See references of WO 2013027232A1

Cited by
EP3306238A1; EP4160119A4; EP4317840A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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