

Title (en)

Indoor heat exchanger, indoor machine, outdoor heat exchanger, outdoor machine, and air conditioner

Title (de)

Innenwärmetauscher, Innenraummaschine, Außenwärmeaustauscher, Außenmaschine und Klimaanlage

Title (fr)

Échangeur de chaleur intérieur, machine d'intérieur, échangeur de chaleur extérieur, machine d'extérieur et climatiseur

Publication

EP 2846102 A2 20150311 (EN)

Application

EP 14167558 A 20140508

Priority

JP 2013151090 A 20130719

Abstract (en)

The object of the invention is to suppress lowering of the cooling and heating capabilities and operation efficiency of air conditioners while suppressing the production costs. An indoor heat exchanger 21 of the indoor machine of an air conditioner is characterized by comprising a front-side fin unit 41 that comprises a plurality of fins arranged side by side; a seal material S1 that is arranged at +Z side end of the front-side fin unit so as to prevent air from flowing out from the +Z side end; and, a plurality of heat transfer tubes T that are arranged to penetrate through the fins of the front-side fin unit 41. The heat transfer tubes T are characterized by comprising: an inlet heat transfer tube T1 that is connected to inlet piping 12 of refrigerant that circulates through a refrigerating cycle when the refrigerating cycle is a heating operation cycle; and a relay heat transfer tube T2a through which the refrigerant that is flowed out from the inlet heat transfer tube T1 flows and that is arranged nearer the seal material S1 than the inlet heat transfer tube T1 is.

IPC 8 full level

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Citation (applicant)

- JP 2001174075 A 20010629 - DAIKIN IND LTD
- JP H0926153 A 19970128 - TOSHIBA CORP
- JP H09210388 A 19970812 - DAIKIN IND LTD
- JP 2012163290 A 20120830 - DAIKIN IND LTD

Cited by

US11131487B2

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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

Designated extension state (EPC)

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DOCDB simple family (publication)

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