

Title (en)
Indoor unit of air conditioner

Title (de)
Innenraumeinheit einer Klimaanlage

Title (fr)
Unité intérieure d'un climatiseur

Publication
EP 1628081 A3 20080102 (EN)

Application
EP 05252196 A 20050407

Priority
KR 20040066058 A 20040820

Abstract (en)
[origin: EP1628081A2] An indoor unit of an air conditioner, includes a blower fan disposed within a casing; and a heat exchanger for heat-exchanging between refrigerant and air flowing by the blower fan, said heat exchanger connected to a refrigerant inlet pipe for introducing refrigerant and a refrigerant outlet pipe for discharging a refrigerant, wherein the refrigerant inlet pipe is connected to a side of the heat exchanger, where a flow velocity of the air passing through the heat exchanger is relatively high. Accordingly, efficiency of heat exchange between the indoor air and refrigerant can be improved, and thus cooling and heating efficiency of the indoor air is improved, thereby improving performance of the air conditioner. Also, by reducing the operation time of the air conditioner, power consumption can be reduced.

IPC 8 full level
F24F 1/0067 (2019.01); **F24F 13/30** (2006.01)

CPC (source: EP KR US)
F24F 1/00 (2013.01 - KR); **F24F 1/0067** (2019.01 - EP US); **F24F 13/30** (2013.01 - KR); **F25B 13/00** (2013.01 - EP US)

Citation (search report)

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- [XP] US 2004211553 A1 20041028 - HANCOCK STEPHEN S [US]
- [A] US 6116048 A 20000912 - HEBERT THOMAS H [US]
- [A] EP 0560037 A1 19930915 - TOSHIBA KK [JP]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
EP 1628081 A2 20060222; **EP 1628081 A3 20080102**; **EP 1628081 B1 20160406**; CN 100351575 C 20071128; CN 1737435 A 20060222; KR 100608682 B1 20060808; KR 20060017396 A 20060223; US 2006037354 A1 20060223

DOCDB simple family (application)
EP 05252196 A 20050407; CN 200510007025 A 20050131; KR 20040066058 A 20040820; US 3315905 A 20050112