

Title (en)
Air conditioner

Title (de)
Klimaanlage

Title (fr)
Climatiseur

Publication
EP 1703217 B1 20090121 (EN)

Application
EP 06251294 A 20060310

Priority
JP 2005074817 A 20050316

Abstract (en)
[origin: EP1703217A1] To provide a simply-constructed air conditioner having a separator forming air flow that is smoothly diverted toward an upper fan and a lower fan, and that has a low disturbance and an increased speed. The air conditioner includes an enclosure 1; a suction port 2; a heat exchanger 13; an upper blowing port 3 and a lower blowing port 4; an upper fan 9 and a lower fan 10; an upper rear guider 14 and a lower rear guider 15; and a corrugated separator 12 having a substantially W-shaped cross section. Here, the corrugated separator 12 includes a central mountain portion 12c which projects in a substantially arcuate shape toward the front surface of the enclosure, at the central portion in the cross section thereof; and an upper valley portion 12b and a lower valley portion 12d each of which caves in a substantially arcuate shape in the cross section thereof toward the rear surface of the enclosure, and is connected with the central mountain portion 12c. Also, the lower edge 14a of the upper rear guider 14 and the upper edge 12a of the upper valley portion 12b of the corrugated separator 12 are connected, and the upper edge 15a of the lower rear guider 15 and the lower edge 12e of the lower valley portion 12d of the corrugated separator 12 are connected.

IPC 8 full level
F04D 25/16 (2006.01); **F24F 1/0083** (2019.01); **F24F 13/20** (2006.01); **F24F 13/24** (2006.01)

CPC (source: EP US)
F04D 17/04 (2013.01 - EP); **F04D 25/166** (2013.01 - EP); **F04D 29/582** (2013.01 - EP); **F24F 1/0025** (2013.01 - EP); **F24F 1/0033** (2013.01 - EP); **F24F 1/005** (2019.01 - EP); **F24F 1/0083** (2019.01 - EP US); **F24F 13/24** (2013.01 - EP)

Cited by
CN106287966A; WO2017206632A1; WO2017041726A1

Designated contracting state (EPC)
ES IT

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EP 1703217 A1 20060920; EP 1703217 B1 20090121; ES 2318692 T3 20090501; JP 2006258344 A 20060928; JP 4766889 B2 20110907

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