

Title (en)
Air conditioner

Title (de)
Klimaanlage

Title (fr)
Climatiseur

Publication
EP 1930663 A2 20080611 (EN)

Application
EP 07023472 A 20071204

Priority
JP 2006332084 A 20061208

Abstract (en)
The present invention is to define a size of an indoor unit for air conditioner in consideration of an installation space of an air conditioner in houses in recent years, and to realize a high energy-saving performance (under APF standard) with dimensional constraint, by a shape and a structure of an indoor unit. The air conditioner includes a wall-hung type indoor unit, wherein the indoor unit including a case having a suction opening either at an upper surface or a front surface, or at the upper surface and the front surface, and a blowout opening at a lower surface, and a cross flow fan which sends air suctioned from the suction opening into the case to a blowout opening through an indoor heat exchanger, has a horizontal width of up to 800 mm, and a height of up to 295 mm, a diameter of the cross flow fan is not less than 100 mm but not more than 115 mm, and a number of stages in the indoor heat exchanger is not less than 16.

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F24F 13/20 (2013.01 - EP); **F24F 11/46** (2017.12 - EP)

Citation (applicant)
• US 2002172588 A1 20021121 - IKEDA TAKASHI [JP], et al
• GB 2360840 A 20011003 - HITACHI LTD [JP]
• EP 1326055 A1 20030709 - SHARP KK [JP]

Citation (third parties)
Third party :
• EP 1632725 A1 20060308 - MITSUBISHI ELECTRIC CORP [JP]
• JP 2005016830 A 20050120 - SANYO ELECTRIC CO, et al

Cited by
EP2343485A4; US2021033288A1

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