

Title (en)

Interior unit for air conditioner, and air conditioner comprising the same

Title (de)

Innenraumeinheit für eine Klimaanlage und diese Einheit beinhaltende Klimaanlage

Title (fr)

Unité intérieure de climatisation d'air et dispositif de climatisation comprenant celle-ci

Publication

EP 1245907 B1 20060614 (EN)

Application

EP 02004111 A 20020225

Priority

- JP 2001088366 A 20010326
- JP 2002023894 A 20020131

Abstract (en)

[origin: EP1245907A2] An interior unit for air conditioners, and an air conditioner itself, for preventing the ventilation performance from being degraded and for reducing noise caused by the interference between the air flow and the fan are disclosed. The interior unit comprises a fan (8) having vanes (8a) which are circularly arranged to have a cylinder shape, wherein intermediate plates (8b) for reinforcing the cylinder are inserted at cross sections along the axis of the cylinder; an interior heat exchanger (7) which surrounds the fan except for an outlet area through which the air is drawn out from the fan; and a stabilizer (30), placed between the interior heat exchanger and the fan, for receiving draining liquid produced by the interior heat exchanger. The air which passes through the interior heat exchanger is then drawn into the fan according to the rotation of the fan, and the drawn air is discharged through the outlet area outside the interior unit. The end of the stabilizer, which is closest to the fan, has a peak-valley form consisting of peak portions and valley portions which are alternately arranged. The pitch of the peak portions is substantially equal to the pitch of the intermediate plates, and the pitch of the vanes is substantially equal to the pitch between each peak portion and each valley portion.

<IMAGE>

IPC 8 full level

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