

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
DISPOSITIF DE TRAITEMENT D'AIR

Publication
EP 1707892 A1 20061004 (EN)

Application
EP 04819447 A 20041126

Priority
• JP 2004017594 W 20041126
• JP 2003400474 A 20031128

Abstract (en)
An indoor unit (1) of an air conditioner is installed on an upper part of a wall surface (W1), and a suction port (4) and a blowout port (5) are provided in a front part and a lower part, respectively, of the indoor unit (1). The blowout port (5) is fitted with wind deflectors (113a, 113b, and 113c) that can vary the blowout direction between a frontward-horizontal direction and a rearward-downward direction. At the start-up of heating, conditioned air is sent out obliquely downward toward the wall surface (W1). By the Coanda effect, the conditioned air goes down along the wall surface (W1), and then flows over a floor surface (F) to circulate inside the room. When the heating operation has stabilized, the wind deflectors (113b and 113c) are so driven to narrow the air stream path so that the conditioned air is sent out at a lower wind volume.

IPC 8 full level
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Cited by
EP1950503A1; EP2778550A4; AU2012330537B2; EP2778551A4; AU2012333903B2; AU2012333903C1; EP3412983A4; EP3534083A4; EP2918930A4; EP3348929A4; AU2016319451B2; EP2778552A4; AU2012333901B2; EP3225932A4; RU2697220C1; US11441790B2; EP2273208A1; EP3614058A1; AU2019219762B2; US9593864B2; US9488381B2; US9644860B2; US10429087B2; US10962246B2

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