

Title (en)

CEILING-EMBEDDED TYPE AIR CONDITIONER

Title (de)

IN DER DECKE EINGEBAUTE KLIMAANLAGE

Title (fr)

CONDITIONNEUR D'AIR INTEGRE AU PLAFOND

Publication

**EP 1152193 A4 20030514 (EN)**

Application

**EP 00955017 A 20000825**

Priority

- JP 0005736 W 20000825
- JP 31582699 A 19991105

Abstract (en)

[origin: EP1152193A1] An air inlet (15) and an air outlet (16) for use during cooling or heating operation of a ceiling-embedded type air conditioner are provided in a decorative panel (14) located at the bottom of the air conditioner (1) presented to a room space. A horizontal vane (18) is provided which can change up and down the supply direction of a conditioned air through the air outlet (16) to guide the conditioned air so that the conditioned air supply direction forms substantially 45 DEG or less with respect to the bottom face of a ceiling board (70). A plurality of straightening plates (19, 19, ...) are arranged on the front face (18a) of the elongated horizontal vane (18) at a predetermined pitch over the entire length in the longitudinal direction thereof to straighten the flow of the conditioned air into a two-dimensional flow along a vertical plane. <IMAGE>

IPC 1-7

**F24F 1/00; F24F 13/14**

IPC 8 full level

**F24F 13/14** (2006.01); **F24F 13/20** (2006.01); **F24F 13/08** (2006.01)

CPC (source: EP)

**F24F 1/0011** (2013.01); **F24F 1/0047** (2019.01); **F24F 13/14** (2013.01); **F24F 2013/0616** (2013.01); **F24F 2013/088** (2013.01)

Citation (search report)

- [X] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03 31 March 1997 (1997-03-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 11 30 September 1998 (1998-09-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 14 31 December 1998 (1998-12-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 05 30 May 1997 (1997-05-30)
- See references of WO 0135032A1

Cited by

US11029058B2; NL1022895C2; EP1619452A1; EP1688678A4; EP1319900A1; CN104807081A; EP1816404A3; EP3086051A4; EP1589292A1; EP3450870A4; EP3805657A4; US10047972B2; US8006512B2; US10208946B2; US10203124B2; US10197298B2; US10203150B2; WO2017218108A1; US11988400B2

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