

Title (en)
Air conditioner

Title (de)
Klimaanlage

Title (fr)
Climatiseur

Publication
EP 1701041 A3 20080312 (EN)

Application
EP 06002266 A 20060203

Priority
• JP 2005028755 A 20050204
• JP 2006009340 A 20060118

Abstract (en)
[origin: EP1701041A2] The present invention promotes a diffuser effect which is one of performance factors of a centrifugal air blower, and realizes a centrifugal air blower with high static pressure and high efficiency. An air conditioner according to the present invention has an indoor unit including an air inlet part, an air outlet part, and a partition plate 2 for dividing the indoor unit 1 into an air blower chamber 3 and a heat exchanger chamber 4. The air blower chamber includes a fan casing 7 in which a centrifugal fan 6 is located, and a motor 8 for driving the centrifugal fan 6. Herein, a tongue part 9 constituting a diffuser 14 of the fan casing 7 is formed from at least two arcs R1 and R2.

IPC 8 full level
F04D 29/42 (2006.01); **F04D 29/44** (2006.01); **F24F 1/0063** (2019.01)

CPC (source: EP US)
F04D 29/422 (2013.01 - EP); **F24F 1/0022** (2013.01 - EP); **F24F 1/0047** (2019.01 - EP); **F24F 1/0063** (2019.01 - EP US)

Citation (search report)
• [XY] JP 2004340495 A 20041202 - FUJITSU GENERAL LTD
• [Y] WO 2004090337 A1 20041021 - CONVEC AS [DK], et al
• [X] GB 2106638 A 19830413 - DELCHI SPA [IT]
• [X] US 5771708 A 19980630 - SUZUKI TOMOKO [JP], et al
• [A] US 2004165984 A1 20040826 - OCHIAI TOSHINORI [JP], et al
• [A] GB 2155616 A 19850925 - MITSUBISHI ELECTRIC CORP

Cited by
CN107289605A; CN107101424A; CN106438405A; EP3193022A1; US8053100B2; US10865798B2; WO2024047448A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1701041 A2 20060913; EP 1701041 A3 20080312; JP 2006242554 A 20060914

DOCDB simple family (application)
EP 06002266 A 20060203; JP 2006009340 A 20060118