

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 3640548 B1 20230726 (EN)

Application
EP 18885141 A 20181203

Priority
• CN 201711299373 A 20171208
• CN 2018118958 W 20181203

Abstract (en)
[origin: EP3640548A1] An air conditioner includes an air-conditioner air inlet (70), an air-conditioner air outlet (80), and an air duct structure disposed between the air-conditioner air inlet (70) and the air-conditioner air outlet (80). The air duct structure includes a cross-flow blade (20) and a volute-and-tongue assembly (10), wherein the cross-flow blade (20) is disposed inside the volute-and-tongue assembly (10). The volute-and-tongue assembly (10) includes an air flow inlet (11) and an air flow outlet (12). In an extending direction of the cross-flow blade (20), a height of the air flow inlet (11) is a ; a height of the air flow outlet (12) is b ; a height of the air-conditioner air inlet (70) is h ; and a height of the air-conditioner air outlet (80) is k , wherein $k < b < a < h$.

IPC 8 full level
F24F 1/00 (2019.01); **F24F 1/0025** (2019.01); **F24F 13/02** (2006.01); **F24F 13/08** (2006.01); **F24F 13/20** (2006.01); **F24F 13/24** (2006.01)

CPC (source: CN EP)
F24F 1/0025 (2013.01 - CN EP); **F24F 13/02** (2013.01 - CN); **F24F 13/08** (2013.01 - CN EP); **F24F 13/20** (2013.01 - EP); **F24F 13/24** (2013.01 - CN EP); **F24F 2013/247** (2013.01 - CN)

Citation (examination)
• WO 2013080395 A1 20130606 - MITSUBISHI ELECTRIC CORP [JP], et al
• JP 2001201078 A 20010727 - MITSUBISHI HEAVY IND LTD
• JP S5487405 U 19790620

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3640548 A1 20200422; **EP 3640548 A4 20200617**; **EP 3640548 B1 20230726**; CN 108266794 A 20180710; CN 108266794 B 20200117; WO 2019109891 A1 20190613

DOCDB simple family (application)
EP 18885141 A 20181203; CN 201711299373 A 20171208; CN 2018118958 W 20181203