

Title (en)
AIR MANAGEMENT APPARATUS OR DEVICE

Title (de)
GERÄT ODER VORRICHTUNG ZUR LUFTVERWALTUNG

Title (fr)
APPAREIL OU DISPOSITIF DE GESTION DE L'AIR

Publication
EP 3835673 A1 20210616 (EN)

Application
EP 20203253 A 20201022

Priority
KR 20190163437 A 20191210

Abstract (en)
An air management device may include three independently operated primary impellers 131, 131', 131'', and drawn-in air is discharged through discharge ports 15'-1, 15'-2, 15'-3 provided in the front plate 15 of the housing 10. Louvers 141, 142, 143 installed downstream of the air flow and discharge ports 15'-1, 15'-2, 15'-3 may be independently opened or closed to provide discharge of the air to the surrounding environment. Further, at least one retractable or pop-up fan may be provided. The air management allows customization of air flow.

IPC 8 full level
F24F 1/0014 (2019.01); **F24F 1/0033** (2019.01); **F24F 13/10** (2006.01); **F24F 13/20** (2006.01)

CPC (source: CN EP KR)
F24F 1/0014 (2013.01 - CN EP KR); **F24F 1/0033** (2013.01 - CN EP); **F24F 11/70** (2017.12 - CN); **F24F 13/072** (2013.01 - KR); **F24F 13/075** (2013.01 - KR); **F24F 13/10** (2013.01 - EP); **F24F 13/1426** (2013.01 - CN); **F24F 13/20** (2013.01 - EP); **F24F 13/222** (2013.01 - CN); **F24F 13/28** (2013.01 - CN); **F24F 13/30** (2013.01 - CN); **F24F 2120/20** (2017.12 - CN); **F24F 2221/38** (2013.01 - EP)

Citation (applicant)
• KR 20050023790 A 20050310 - WINIAMANDO INC
• KR 20150082967 A 20150716 - SAMSUNG HEAVY IND [KR]
• KR 20090038555 A 20090421 - WINIAMANDO INC [KR]

Citation (search report)
• [XYI] KR 101385286 B1 20140417 - LG ELECTRONICS INC [KR]
• [Y] KR 20090098514 A 20090917 - LG ELECTRONICS INC [KR]
• [Y] CN 110186117 A 20190830 - GUANGDONG MIDEA REFRIGERATION EQUIPMENT CO LTD, et al
• [Y] EP 3009752 A1 20160420 - LG ELECTRONICS INC [KR]
• [X] CN 109812873 A 20190528 - QINGDAO HAIER AIR CONDITIONER
• [A] CN 110160162 A 20190823 - QINGDAO HAIER AIR CONDITIONER, et al

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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EP 20203253 A 20201022; CN 202010424072 A 20200519; KR 20190163437 A 20191210