

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 3835676 A1 20210616 (EN)**

Application  
**EP 20203261 A 20201022**

Priority  
• KR 20190163426 A 20191210  
• KR 20190163444 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 1/005** (2019.01); **F24F 1/0073** (2019.01); **F24F 1/0087** (2019.01); **F24F 11/70** (2018.01); **F24F 11/72** (2018.01); **F24F 11/79** (2018.01); **F24F 13/20** (2006.01)

CPC (source: CN EP)  
**F24F 1/0014** (2013.01 - CN EP); **F24F 1/0033** (2013.01 - CN EP); **F24F 1/005** (2019.02 - EP); **F24F 1/0073** (2019.02 - EP); **F24F 1/0087** (2019.02 - EP); **F24F 11/70** (2018.01 - CN EP); **F24F 11/72** (2018.01 - EP); **F24F 11/79** (2018.01 - 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** (2018.01 - CN); **F24F 2221/10** (2013.01 - EP)

Citation (applicant)  
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• KR 20150082967 A 20150716 - SAMSUNG HEAVY IND [KR]  
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• [A] EP 3376123 A1 20180919 - SAMSUNG ELECTRONICS CO LTD [KR]  
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US 4900344 A 19900213 - LANSING JAMES P [US]

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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)  
**EP 3835676 A1 20210616**; CN 112944467 A 20210611

DOCDB simple family (application)  
**EP 20203261 A 20201022**; CN 202010424157 A 20200519