

Title (en)
CEILING TYPE INDOOR UNIT OF AIR CONDITIONER

Title (de)
DECKENINNENRAUMEINHEIT EINER KLIMAAANLAGE

Title (fr)
UNITÉ INTÉRIEURE DE CLIMATISEUR DE TYPE PLAFOND

Publication
EP 4321816 A3 20240717 (EN)

Application
EP 23210480 A 20180920

Priority
• KR 20170121408 A 20170920
• KR 2018011183 W 20180920
• EP 18859847 A 20180920

Abstract (en)
A first vane module, a second vane module, a third vane module, and a fourth vane module are sequentially controlled in successive order, thereby generating round swing wind swirling around an indoor unit. Consequently, it is possible to provide direct wind in the discharge direction of each vane module and to provide indirect wind to an indoor space deviating from the discharge direction of each vane module.

IPC 8 full level
F24F 13/14 (2006.01); **F24F 1/00** (2019.01); **F24F 1/0011** (2019.01); **F24F 1/0047** (2019.01); **F24F 11/61** (2018.01); **F24F 11/65** (2018.01); **F24F 11/79** (2018.01); **F24F 13/06** (2006.01)

CPC (source: EP KR)
F24F 1/0011 (2013.01 - EP KR); **F24F 1/0047** (2019.02 - EP); **F24F 11/61** (2018.01 - EP); **F24F 11/65** (2018.01 - EP); **F24F 11/79** (2018.01 - EP); **F24F 13/14** (2013.01 - EP); **F24F 13/1413** (2013.01 - EP); **F24F 13/1426** (2013.01 - KR); **F24F 13/06** (2013.01 - EP); **F24F 2013/1433** (2013.01 - EP KR); **F24F 2221/54** (2013.01 - EP)

Citation (search report)
• [X] EP 3184925 A1 20170628 - MITSUBISHI HEAVY IND LTD [JP]
• [X] JP 2015068603 A 20150413 - DAIKIN IND LTD
• [X] KR 100794596 B1 20080117 - SAMSUNG ELECTRONICS CO LTD [KR]

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 3686507 A1 20200729; EP 3686507 A4 20210818; EP 3686507 B1 20240110; AU 2018334927 A1 20200507; AU 2018334927 B2 20220421; AU 2018337541 A1 20200507; AU 2018337541 B2 20220414; AU 2018337544 A1 20200507; AU 2018337544 B2 20220421; AU 2018337546 A1 20200507; AU 2018337546 B2 20220428; CN 111373200 A 20200703; CN 111373200 B 20220225; CN 111373208 A 20200703; CN 111373208 B 20220401; CN 111373209 A 20200703; CN 111373209 B 20220222; CN 111433525 A 20200717; CN 111433525 B 20220222; EP 3686506 A1 20200729; EP 3686506 A4 20210728; EP 3686508 A1 20200729; EP 3686508 A4 20211124; EP 3686508 B1 20231122; EP 3686509 A1 20200729; EP 3686509 A4 20211208; EP 3686509 B1 20231122; EP 4321816 A2 20240214; EP 4321816 A3 20240717; EP 4321818 A2 20240214; EP 4339526 A2 20240320; EP 4339526 A3 20240522; KR 102088828 B1 20200423; KR 102090646 B1 20200423; KR 102090647 B1 20200522; KR 102090648 B1 20200522; KR 20190033030 A 20190328; KR 20190033031 A 20190328; KR 20190033032 A 20190328; KR 20190033033 A 20190328; WO 2019059682 A1 20190328; WO 2019059685 A1 20190328; WO 2019059686 A1 20190328; WO 2019059688 A1 20190328

DOCDB simple family (application)
EP 18858280 A 20180920; AU 2018334927 A 20180920; AU 2018337541 A 20180920; AU 2018337544 A 20180920; AU 2018337546 A 20180920; CN 201880075073 A 20180920; CN 201880075081 A 20180920; CN 201880075082 A 20180920; CN 201880075124 A 20180920; EP 18857518 A 20180920; EP 18859846 A 20180920; EP 18859847 A 20180920; EP 23210480 A 20180920; EP 23210488 A 20180920; EP 24150164 A 20180920; KR 2018011164 W 20180920; KR 2018011173 W 20180920; KR 2018011181 W 20180920; KR 2018011183 W 20180920; KR 20180112674 A 20180920; KR 20180112675 A 20180920; KR 20180112676 A 20180920; KR 20180112677 A 20180920