

Title (en)
CEILING EMBEDDED AIR CONDITIONER

Title (de)
IN EINE RAUMDECKE EINGEBETTETE KLIMAAANLAGE

Title (fr)
CONDITIONNEUR D'AIR INTÉGRÉ AU PLAFOND

Publication
EP 3715730 A1 20200930 (EN)

Application
EP 20157694 A 20200217

Priority
JP 2019060092 A 20190327

Abstract (en)
A ceiling embedded air conditioner is provided in which even when an air direction deflector plate 5 opens at a small angle as in a cooling operation, an air flow is allowed to flow along the air direction deflector plate 5 to thereby prevent the generation of condensation which would otherwise be caused by an air flow flowing separate from a front surface portion (a lower surface side) 5a of the air direction deflector plate 5 as in a cooling operation. An air outlet vent 3 is made up of an inner air path 13 and an outer air path 14, and the inner air path 13 is made up of a flat surface portion 13a on an upstream side and a curved surface portion 13b on a downstream side, a plurality of projections 15 being provided at an end portion of the curved surface portion 13b.

IPC 8 full level
F24F 1/0011 (2019.01); **F24F 1/0047** (2019.01); **F24F 13/072** (2006.01); **F24F 13/08** (2006.01); **F24F 13/14** (2006.01); **F24F 13/20** (2006.01)

CPC (source: CN EP)
F24F 1/0011 (2013.01 - CN EP); **F24F 1/0047** (2019.02 - CN EP); **F24F 13/072** (2013.01 - EP); **F24F 13/08** (2013.01 - CN);
F24F 13/081 (2013.01 - EP); **F24F 13/15** (2013.01 - CN); **F24F 13/14** (2013.01 - EP); **F24F 13/20** (2013.01 - EP)

Citation (applicant)
JP 2000205642 A 20000728 - MITSUBISHI ELECTRIC CORP

Citation (search report)
• [XYI] JP H0886504 A 19960402 - HITACHI AIR CONDITIONING & REF
• [XYI] JP 2007024345 A 20070201 - MITSUBISHI ELECTRIC CORP
• [YA] JP 2006336961 A 20061214 - MATSUSHITA ELECTRIC IND CO LTD
• [A] EP 1139034 A1 20011004 - MITSUBISHI ELECTRIC CORP [JP]

Cited by
CN114791126A

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 3715730 A1 20200930; CN 111750436 A 20201009; CN 111750436 B 20231003; JP 2020159637 A 20201001; JP 7232986 B2 20230306

DOCDB simple family (application)
EP 20157694 A 20200217; CN 202010098648 A 20200218; JP 2019060092 A 20190327