

Title (en)  
CEILING-EMBEDDED AIR CONDITIONER

Title (de)  
IN EINE RAUMDECKE EINGEBETTETE KLIMAAANLAGE

Title (fr)  
CLIMATISEUR INTÉGRÉ AU PLAFOND

Publication  
**EP 3748238 A4 20211020 (EN)**

Application  
**EP 18904199 A 20181108**

Priority  
• JP 2018013680 A 20180130  
• JP 2018041452 W 20181108

Abstract (en)  
[origin: EP3748238A1] In order to reduce noise generated by air sucked in or blown out by a blower, this ceiling-cassette air conditioner comprises: a heat exchanger (7); a blower (6) that is arranged on the inside with respect to the heat exchanger (7), and that has a tubular shroud (25) the diameter of which increases toward the outside; a bell mouth (12) arranged below the shroud (25) and on the suction side of the blower (6); and a drain pan (10), in which is formed a recessed drain groove (18) in which a lower portion of the heat exchanger (7) is accommodated. The ratio of a second gap B between the discharge-side end of the shroud (25) and an inner-peripheral wall part (18a) on the inside of the drain groove 18 relative to the heat exchanger (7) to a first gap A between the upper end of the bell mouth (12) and the suction-side end of the shroud (25) is  $B/A \leq 3$  or  $10 \leq B/A$ .

IPC 8 full level  
**F24F 1/00** (2019.01); **F24F 13/22** (2006.01)

CPC (source: EP)  
**F24F 1/0022** (2013.01); **F24F 1/0047** (2019.01); **F24F 13/24** (2013.01); **F24F 13/22** (2013.01)

Citation (search report)  
• [X] JP 2014215027 A 20141117 - DAIKIN IND LTD  
• [X] JP 2017215091 A 20171207 - HITACHI JOHNSON CONTROLS AIR CONDITIONING INC  
• [X] EP 1890087 A1 20080220 - LG ELECTRONICS INC [KR]  
• [A] US 2005103042 A1 20050519 - SANAGI TSUNEHISA [JP]  
• [A] JP H11101194 A 19990413 - DAIKIN IND LTD  
• See references of WO 2019150691A1

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 3748238 A1 20201209**; **EP 3748238 A4 20211020**; CN 212746683 U 20210319; JP 2019132475 A 20190808; JP 7278710 B2 20230522; WO 2019150691 A1 20190808

DOCDB simple family (application)  
**EP 18904199 A 20181108**; CN 201890001506 U 20181108; JP 2018013680 A 20180130; JP 2018041452 W 20181108