

Title (en)
AIR CONDITIONER INDOOR UNIT

Title (de)
KLIMAANLAGEN-INNENRAUMEINHEIT

Title (fr)
UNITÉ INTÉRIEURE DE CLIMATISATION

Publication
EP 2224184 A1 20100901 (EN)

Application
EP 08867622 A 20081218

Priority
• JP 2008073106 W 20081218
• JP 2007336953 A 20071227

Abstract (en)
An air conditioner indoor unit A includes a body casing 1, which accommodates a fan 2 and a heat exchanger 3. A top plate 13 is arranged in an upper portion of the body casing 1. A longitudinal reinforcement rib 14, which divides the top plate 13 into a first region 13a and a second region 13b, is formed in the top plate 13. A first lateral reinforcement rib 15, which extends between the longitudinal reinforcement rib 14 and a corresponding one of side edges 13c of the top plate 13, is formed in the first region 13a. A second lateral reinforcement rib 16, which extends between the longitudinal reinforcement rib 14 and the other side edge 13c of the top plate 13, is formed in the second region 13b. The reinforcement ribs 14, 15, 16 thus significantly increase the rigidity of the top plate 13 as a whole. Further, if the first and second lateral reinforcement ribs 15, 16 are formed by stretch-forming, torsion and flexure of the top plate 13 caused by spring back after the ribs 15, 16 are formed are decreased. As a result, the top plate 13 is mounted with increased work efficiency.

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

CPC (source: EP US)
F24F 1/0047 (2019.01 - EP US); **F24F 13/20** (2013.01 - EP US)

Cited by
EP2840327A1; KR20160057049A; AU2015347519B2; WO2016076566A1; US10132554B2; US10571151B2; US11326806B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2224184 A1 20100901; **EP 2224184 A4 20131113**; **EP 2224184 B1 20170830**; AU 2008344552 A1 20090709; AU 2008344552 B2 20110310; CN 101836049 A 20100915; CN 101836049 B 20130410; ES 2641904 T3 20171114; JP 2009156535 A 20090716; JP 4305559 B2 20090729; KR 101156293 B1 20120613; KR 20100057696 A 20100531; US 2010206514 A1 20100819; WO 2009084457 A1 20090709

DOCDB simple family (application)
EP 08867622 A 20081218; AU 2008344552 A 20081218; CN 200880112480 A 20081218; ES 08867622 T 20081218; JP 2007336953 A 20071227; JP 2008073106 W 20081218; KR 20107008944 A 20081218; US 68221708 A 20081218