

Title (en)

A SUPPORTING STRUCTURE FOR FRONT PANEL OF INDOOR UNIT OF AIR CONDITIONER

Title (de)

STÜTZSTRUKTUR FÜR DIE FRONTPLATTE EINER INNENRAUMEINHEIT EINER KLIMAANLAGE

Title (fr)

STRUCTURE DE SUPPORT POUR PANNEAU AVANT D'UNE UNITÉ INTÉRIEURE DE CLIMATISEUR

Publication

**EP 2180272 B1 20160420 (EN)**

Application

**EP 08783553 A 20080724**

Priority

- CN 2008001362 W 20080724
- CN 200720054601 U 20070725

Abstract (en)

[origin: EP2180272A1] A supporting structure for front panel of indoor unit of air conditioner comprises an upper supporting rod and a lower supporting rod. The front panel is rotatably connected with the front panel body by a hinge, one end of said upper supporting rod is rotatably connected with one end of said lower supporting rod by a hinge structure. A restricting and locking mechanism is disposed at the joint between said upper supporting rod and said lower supporting rod. The restricting and locking mechanism comprises baffles and an elastic plate disposed on the upper supporting rod, and comprises flanks and a bulge disposed on the lower supporting rod. When the front panel is closed, the upper and lower supporting rods are in a folded state and hidden inside the indoor unit; when the front panel is opened, the upper and lower supporting rods are extended in a straight line which can be automatically locked by the restricting and locking mechanism so that the front panel can be held at the opening location, which is convenient for the repair and maintenance of air conditioner; at the same time, the opening angle of the front panel is restricted, thereby the damages to the front panel, the front panel body and other parts caused by exceeded opening of the front panel can be avoided.

IPC 8 full level

**F24F 13/20** (2006.01); **F16B 7/00** (2006.01); **F24F 1/0057** (2019.01)

CPC (source: EP US)

**F24F 1/0057** (2019.01 - EP US); **F24F 13/20** (2013.01 - EP US)

Cited by

EP2347187A4

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

DOCDB simple family (publication)

**EP 2180272 A1 20100428**; **EP 2180272 A4 20141001**; **EP 2180272 B1 20160420**; BR PI0812606 A2 20151006; BR PI0812606 B1 20191105; CN 201069238 Y 20080604; MY 157561 A 20160630; WO 2009012658 A1 20090129

DOCDB simple family (application)

**EP 08783553 A 20080724**; BR PI0812606 A 20080724; CN 200720054601 U 20070725; CN 2008001362 W 20080724; MY PI20100333 A 20080724