

Title (en)

Right-left air flow direction control device and air-conditioning apparatus indoor unit provided with the same

Title (de)

Rechts-Links-Luftstromrichtungs-Steuerungsvorrichtung und Klimaanlagevorrichtung-Innenraumeinheit damit

Title (fr)

Dispositif de commande de direction d'écoulement d'air droite-gauche et unité intérieure d'appareil de climatisation doté de celui-ci

Publication

**EP 2557367 A3 20180411 (EN)**

Application

**EP 12179459 A 20120807**

Priority

JP 2011175688 A 20110811

Abstract (en)

[origin: EP2557367A2] A right-left air flow direction control device (100) includes right-left deflectors (10) and connecting rods (20). Each right-left deflector (10) includes a base portion (13) defining a plane perpendicular to the center A of rotation of a rotation shaft (11), a planar portion (12), and a connection protrusion (15) extending from the base portion (13). Each connecting rod (20) includes a rod body (21), connection holes (25), rod body extended portions (22) arranged in one side edge (21 d) of the rod body (21) so as to correspond to the connection holes (25), respectively, and contact raised parts (23) arranged along the edges of the rod body extended portions, respectively, the contact raised parts being higher than the rod body (21). Upon frontward air blowing, parts near the connection holes (25) of the connecting rod (20) are held by the respective connection protrusions (15) while being prevented from separating from the connection protrusions (15) and the tops of the contact raised parts (23) and parts near the other side edge are in contact with the respective base portions (13), so that the connecting rod (20) undergoes bending deformation.

IPC 8 full level

**F24F 1/00** (2011.01); **F24F 13/14** (2006.01); **F24F 13/15** (2006.01)

CPC (source: EP)

**F24F 1/0011** (2013.01); **F24F 13/15** (2013.01); **F24F 2013/1433** (2013.01); **F24F 2013/1473** (2013.01)

Citation (search report)

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- [A] US 6113487 A 20000905 - KIM CHANG-KI [KR]
- [A] JP S6183839 A 19860428 - KOJIMA PRESS KOGYO KK, et al
- [A] JP S59183235 A 19841018 - HINO MOTORS LTD

Cited by

EP3792501A4; CN103954027A; EP4276367A1

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 2557367 A2 20130213**; **EP 2557367 A3 20180411**; **EP 2557367 B1 20200415**; CN 102954571 A 20130306; CN 102954571 B 20151014; JP 2013036724 A 20130221; JP 5404713 B2 20140205; RU 2012132400 A 20140210; RU 2508511 C1 20140227

DOCDB simple family (application)

**EP 12179459 A 20120807**; CN 201210285355 A 20120810; JP 2011175688 A 20110811; RU 2012132400 A 20120727