

Title (en)

MODULAR UNIVERSAL AIR SUPPLY DEVICE FOR REFRIGERATOR, REFRIGERATOR, AND METHOD FOR MANUFACTURING REFRIGERATOR

Title (de)

MODULARE UNIVERSALLUFTZUFUHRVORRICHTUNG FÜR KÜHLSCHRANK, KÜHLSCHRANK UND VERFAHREN ZUM HERSTELLEN EINES KÜHLSCHRANKS

Title (fr)

DISPOSITIF D'ALIMENTATION EN AIR UNIVERSEL ET MODULAIRE POUR RÉFRIGÉRATEUR, RÉFRIGÉRATEUR ET PROCÉDÉ DE FABRICATION DE RÉFRIGÉRATEUR

Publication

**EP 4047292 B1 20231122 (EN)**

Application

**EP 20806799 A 20200318**

Priority

- CN 201910389731 A 20190510
- CN 2020079990 W 20200318

Abstract (en)

[origin: EP4047292A1] Disclosed are a modular universal air supply device for a refrigerator, the refrigerator, and a method for manufacturing the refrigerator. The modular universal air supply device comprises: an air duct main body (20); two optional widening modules (30) arranged on two lateral sides of the air duct main body (20); and a first optional air duct covering plate (40) and/or a second optional air duct covering plate (50) each comprising a front cover part (41) and two connection parts (42) arranged on two lateral sides of the front cover part (41); the front cover parts (41) are arranged on a front side of the air duct main body (20), and each connection part (42) is configured to be mounted on a refrigerator body; and the second optional air duct covering plate (50) further comprises two widening cover parts (51), and each widening cover part (51) is connected to one lateral side of a front cover part (41) and is arranged on a front side of one optional widening module (30). The universality of the refrigerator body and air duct foam can be improved, the molding cost is reduced, waste in terms of administration caused by too many air ducts and refrigerator bodies is reduced, air ducts with different apparent widths can be installed in the same refrigerator body, and cross-platform air duct module universality and refrigerator body universality are achieved.

IPC 8 full level

**F25D 17/06** (2006.01); **F25D 17/08** (2006.01)

CPC (source: CN EP KR)

**F25D 17/062** (2013.01 - EP KR); **F25D 17/08** (2013.01 - CN KR); **F25D 21/04** (2013.01 - CN KR); **F25D 23/00** (2013.01 - CN KR); **F25D 2201/10** (2013.01 - KR); **F25D 2317/067** (2013.01 - KR)

Citation (examination)

US 11131496 B2 20210928 - FEI BIN [CN], et al

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 4047292 A1 20220824**; **EP 4047292 A4 20230111**; **EP 4047292 B1 20231122**; CN 110057155 A 20190726; CN 110057155 B 20240419; JP 2022529441 A 20220622; KR 102593623 B1 20231025; KR 20220011615 A 20220128; WO 2020228412 A1 20201119

DOCDB simple family (application)

**EP 20806799 A 20200318**; CN 201910389731 A 20190510; CN 2020079990 W 20200318; JP 2021561035 A 20200318; KR 20217033062 A 20200318