

Title (en)

INTEGRATED AIR DUCT MODULE AND REFRIGERATOR HAVING INTEGRATED AIR DUCT MODULE

Title (de)

INTEGRIERTES LUFTKANALMODUL UND KÜHLSCHRANK MIT INTEGRIERTEM LUFTKANALMODUL

Title (fr)

MODULE DE CONDUIT D'AIR INTÉGRÉ ET RÉFRIGÉRATEUR COMPORTANT UN MODULE DE CONDUIT D'AIR INTÉGRÉ

Publication

**EP 3764031 A4 20210421 (EN)**

Application

**EP 18908682 A 20181226**

Priority

- CN 201810195287 A 20180309
- CN 2018123736 W 20181226

Abstract (en)

[origin: EP3764031A1] An integrated air duct module (100), wherein the distributed structure of traditional air ducts is changed and a modular structure is used so as to improve the precision in the assembly of a refrigerator, being applied to a two-door refrigerator and eliminating the traditional refrigerator structure by providing an air vent at a side of a refrigerator compartment (30), thereby preventing a convex structure that occupies the storage capacity of the refrigerator compartment (30) from forming at a top portion of the refrigerator compartment (30), increasing the storage space of the refrigerator compartment (30).

IPC 8 full level

**F25D 17/08** (2006.01)

CPC (source: CN EP)

**F25D 11/00** (2013.01 - CN); **F25D 17/045** (2013.01 - EP); **F25D 17/065** (2013.01 - EP); **F25D 17/08** (2013.01 - CN); **F25D 2317/0663** (2013.01 - EP); **F25D 2317/0672** (2013.01 - EP); **F25D 2400/06** (2013.01 - EP)

Citation (search report)

- [X] EP 2975341 A1 20160120 - LG ELECTRONICS INC [KR]
- [X] CN 203464581 U 20140305 - HISENSE SHANDONG REFRIGERATOR CO LTD
- [X] GB 2306212 A 19970430 - LG ELECTRONICS INC [KR]
- [X] WO 2017039332 A1 20170309 - LG ELECTRONICS INC [KR]
- [X] WO 2017067189 A1 20170427 - QINGDAO HAIER JOINT STOCK CO LTD [CN]
- [X] CN 107490237 A 20171219 - HEFEI HUALING CO LTD, et al
- [X] WO 2010087572 A2 20100805 - LG ELECTRONICS INC [KR], et al
- [XI] US 2009113924 A1 20090507 - BAE JUN HO [KR], et al
- [X] US 5881568 A 19990316 - KIM CHEOL-MIN [KR]
- [X] US 3982584 A 19760928 - SPANOUDIS LOUIS
- [X] US 2013000333 A1 20130103 - KIM CHEOLHWAN [KR], et al
- [X] WO 2011081500 A2 20110707 - LG ELECTRONICS INC, et al
- See references of WO 2019169935A1

Cited by

EP4311991A1

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 3764031 A1 20210113**; **EP 3764031 A4 20210421**; **EP 3764031 B1 20230607**; CN 108548355 A 20180918; CN 108548355 B 20200623; ES 2954486 T3 20231122; WO 2019169935 A1 20190912

DOCDB simple family (application)

**EP 18908682 A 20181226**; CN 201810195287 A 20180309; CN 2018123736 W 20181226; ES 18908682 T 20181226