

Title (en)
REFRIGERATOR

Title (de)
KÜHLSCHRANK

Title (fr)
RÉFRIGÉRATEUR

Publication
EP 2778577 B1 20200408 (EN)

Application
EP 12848550 A 20121106

Priority
• JP 2011246055 A 20111110
• JP 2011246056 A 20111110
• JP 2012023601 A 20120207
• JP 2012007092 W 20121106

Abstract (en)
[origin: EP2778577A1] The present invention includes a cooler stored on a back surface of a storage compartment, and a cooling fan (5) configured to circulate cool air generated by the cooler into the storage compartment, and further includes a duct (7) having a flow straightener (8) that protrudes toward the cooling fan (5) at such a position as to face the cooling fan (5). Furthermore, the flow straightener (8) is formed in a substantially truncated conical shape, the flow straightener (8) having an inclined part (9) and a plane part (10). Consequently, it is possible to reduce a pressure loss on a blowing side without increase in a pressure loss on a suction side of the cooling fan (5), while suppressing the depth dimension of the duct (7). Furthermore, it is possible to provide a refrigerator having high storage efficiency, high cooling efficiency, and low noise.

IPC 8 full level
F25D 17/08 (2006.01); **F25D 17/06** (2006.01)

CPC (source: EP)
F04D 29/541 (2013.01); **F25D 17/065** (2013.01); **F25D 2317/063** (2013.01); **F25D 2317/0681** (2013.01); **F25D 2500/02** (2013.01)

Citation (examination)
• JP 2011007452 A 20110113 - HITACHI APPLIANCES INC
• JP 2010230286 A 20101014 - SHARP KK

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 2778577 A1 20140917; **EP 2778577 A4 20150826**; **EP 2778577 B1 20200408**; CN 103930740 A 20140716; CN 103930740 B 20160824; WO 2013069254 A1 20130516

DOCDB simple family (application)
EP 12848550 A 20121106; CN 201280055268 A 20121106; JP 2012007092 W 20121106