

Title (en)
REFRIGERATOR

Title (de)
KÜHLSCHRANK

Title (fr)
RÉFRIGÉRATEUR

Publication
EP 3757487 A4 20211110 (EN)

Application
EP 18906880 A 20181025

Priority
• KR 20180021938 A 20180223
• KR 2018012711 W 20181025

Abstract (en)
[origin: US2020370815A1] A refrigerator includes an inner case defining a storage chamber; a cold-air duct for guiding air flowing in the storage chamber and forming a heat exchange space, together with the inner case; an evaporator positioned in the heat exchange space; a bypass passage disposed at the cold-air duct and allowing air to flow while bypassing the evaporator; a sensor disposed in the bypass passage and having an output value which changes according to the flow rate of the air flowing through the bypass passage; a defroster for removing frost generated on a surface of the evaporator; and a controller for controlling the defroster on the basis of the value output by the sensor.

IPC 8 full level
F25D 21/00 (2006.01); **F25D 17/06** (2006.01); **F25D 21/02** (2006.01); **F25D 21/08** (2006.01)

CPC (source: CN EP US)
F25D 17/06 (2013.01 - CN); **F25D 17/062** (2013.01 - CN EP); **F25D 21/006** (2013.01 - CN EP US); **F25D 21/02** (2013.01 - CN EP US); **F25D 21/08** (2013.01 - CN); **F25D 21/08** (2013.01 - EP); **F25D 2317/067** (2013.01 - CN EP); **F25D 2500/02** (2013.01 - CN EP)

Citation (search report)
• [XAY] US 3355904 A 19671205 - SUTTON JR WALTER T, et al
• [X] US 3465534 A 19690909 - SUTTON WALTER T JR, et al
• [X] US 3845637 A 19741105 - SHEPHERD G
• [Y] KR 101536284 B1 20150714 - DAEIL CO LTD [KR], et al
• [A] WO 2017131426 A1 20170803 - LG ELECTRONICS INC [KR]
• [A] CN 105865128 A 20160817 - HEFEI HUALING CO LTD, et al
• See also references of WO 2019164084A1

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)
US 2020370815 A1 20201126; AU 2018409749 A1 20200910; AU 2018409749 B2 20220728; CN 111771092 A 20201013; CN 111771092 B 20220415; CN 114674108 A 20220628; CN 114674108 B 20231215; EP 3757487 A1 20201230; EP 3757487 A4 20211110; KR 102627972 B1 20240123; KR 20190101669 A 20190902; WO 2019164084 A1 20190829

DOCDB simple family (application)
US 202016991479 A 20200812; AU 2018409749 A 20181025; CN 201880088953 A 20181025; CN 202210300871 A 20181025; EP 18906880 A 20181025; KR 20180021938 A 20180223; KR 2018012711 W 20181025