

Title (en)  
HEAT EXCHANGER OF REFRIGERATOR

Title (de)  
WÄRMETAUSCHER FÜR KÜHLSCHRANK

Title (fr)  
ÉCHANGEUR DE CHALEUR DE RÉFRIGÉRATEUR

Publication  
**EP 3575723 A1 20191204 (EN)**

Application  
**EP 18745341 A 20180125**

Priority  
• KR 20170012262 A 20170125  
• KR 2018001098 W 20180125

Abstract (en)  
A heat exchanger for a refrigerator, which is of a microchannel type, according to the present invention includes a first heat exchange unit including a plurality of flat tubes, which serves to exchange heat between refrigerant and are connected to an introduction pipe, a second heat exchange unit including a plurality of flat tubes, which serve to exchange heat between the refrigerant and air and are disposed outside the first heat exchange unit so as to be connected to a discharge tube, and a connecting pipe connecting the first heat exchange unit to the second heat exchange unit to supply the refrigerant to the second heat exchange unit, wherein the first heat exchange unit is disposed so as to exchange heat with air, and wherein a total cross-sectional area of the flat tubes of the first heat exchange unit is larger than that of the flat tubes of the second heat exchange unit.

IPC 8 full level  
**F28D 1/053** (2006.01); **F25B 39/04** (2006.01); **F25D 19/00** (2006.01); **F28D 21/00** (2006.01); **F28F 1/12** (2006.01); **F28F 3/04** (2006.01)

CPC (source: EP KR US)  
**F25B 39/04** (2013.01 - EP KR US); **F25D 19/00** (2013.01 - KR); **F28D 1/0417** (2013.01 - EP); **F28D 1/0435** (2013.01 - EP); **F28D 1/05375** (2013.01 - EP); **F28D 1/05383** (2013.01 - EP KR); **F28D 1/05391** (2013.01 - US); **F28F 1/126** (2013.01 - EP KR); **F28F 3/048** (2013.01 - KR US); **F25B 2339/043** (2013.01 - KR); **F28D 1/05375** (2013.01 - US); **F28D 2021/0063** (2013.01 - KR); **F28D 2021/0068** (2013.01 - EP US); **F28F 1/128** (2013.01 - US); **F28F 1/24** (2013.01 - EP); **F28F 9/02** (2013.01 - US); **F28F 2210/08** (2013.01 - EP); **F28F 2260/02** (2013.01 - KR US)

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 3575723 A1 20191204**; **EP 3575723 A4 20210407**; CN 110494709 A 20191122; KR 20180087775 A 20180802; US 2021131749 A1 20210506; WO 2018139863 A1 20180802

DOCDB simple family (application)  
**EP 18745341 A 20180125**; CN 201880021276 A 20180125; KR 20170012262 A 20170125; KR 2018001098 W 20180125; US 201816480855 A 20180125