

Title (en)  
HEAT EXCHANGER AND AIR CONDITIONER

Title (de)  
WÄRMETAUSCHER UND KLIMAAANLAGE

Title (fr)  
ÉCHANGEUR DE CHALEUR ET CLIMATISEUR

Publication  
**EP 3550247 A4 20191218 (EN)**

Application  
**EP 16922957 A 20161202**

Priority  
JP 2016085941 W 20161202

Abstract (en)  
[origin: EP3550247A1] A heat exchanger with improved drainage performance is provided. In the heat exchanger, a first plate fin (12a) is spaced a first distance from at least one heat transfer tube (11) in a second direction perpendicular to a first direction. A second plate fin (12b) is spaced a second distance from the first plate fin (12a) in the second direction. The first plate fin (12a) and a first corrugated fin (13a) are connected to each other by a plurality of first connections (24) spaced a third distance from one another in the first direction. The first plate fin (12a) and a second corrugated fin (13b) are connected to each other by a plurality of second connections (25) spaced a fourth distance from one another in the first direction. The third distance and the fourth distance are greater than the first distance and the second distance.

IPC 8 full level  
**F28D 1/053** (2006.01); **F28F 1/30** (2006.01); **F28F 1/32** (2006.01)

CPC (source: EP)  
**F28D 1/053** (2013.01); **F28D 1/05366** (2013.01); **F28F 1/126** (2013.01); **F28F 1/128** (2013.01); **F28F 1/30** (2013.01); **F28F 1/32** (2013.01); **F28F 17/005** (2013.01); **F28F 2215/00** (2013.01); **F28F 2215/10** (2013.01)

Citation (search report)

- [A] JP 2010025462 A 20100204 - NIPPON LIGHT METAL CO
- [AD] JP H09280754 A 19971031 - SHOWA ALUMINUM CORP
- [A] WO 2016158193 A1 20161006 - MITSUBISHI ELECTRIC CORP [JP]
- [A] WO 2016139730 A1 20160909 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2018100738A1

Cited by  
US2022074671A1

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 3550247 A1 20191009; EP 3550247 A4 20191218; EP 3550247 B1 20201125**; JP 6997722 B2 20220118; JP WO2018100738 A1 20191017; WO 2018100738 A1 20180607

DOCDB simple family (application)  
**EP 16922957 A 20161202**; JP 2016085941 W 20161202; JP 2018553624 A 20161202