

Title (en)  
AIR CONDITIONING DEVICE

Title (de)  
KLIMATISIERUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE CLIMATISATION

Publication  
**EP 4317811 A1 20240207 (EN)**

Application  
**EP 21933119 A 20210326**

Priority  
JP 2021012941 W 20210326

Abstract (en)  
In an air-conditioning apparatus (200) including a heat exchanger (10) configured to switch between serving as an evaporator and serving as a condenser, the heat exchanger (10) includes a first heat exchanger (21), a second heat exchanger (22), and a connection pipe (12). The first heat exchanger (21) includes a first header (21) divided into a plurality of chambers and connected with one end of each of the first heat transfer tubes (212), and a second header (214) extending in a horizontal direction and connected with the other end of each of the first heat transfer tubes (212). The second heat exchanger (22) includes a plurality of second heat transfer tubes (222), a third header (223) extending in the horizontal direction and connected with one end of each of the second heat transfer tubes (222), and a fourth header (224) extending in the horizontal direction and connected with the other end of each of the second heat transfer tubes (222). The connection pipe (12) connects the first heat exchanger (21) and the second heat exchanger (22). The first heat transfer tubes (212) each have a length greater than the length of each of the second heat transfer tubes (222).

IPC 8 full level  
**F24F 1/0067** (2019.01)

CPC (source: EP US)  
**F24F 1/0325** (2019.02 - US); **F25B 13/00** (2013.01 - EP); **F28D 1/0426** (2013.01 - EP); **F28D 1/05325** (2013.01 - EP); **F28D 1/05341** (2013.01 - EP); **F28F 9/0209** (2013.01 - EP); **F25B 39/02** (2013.01 - EP); **F25B 39/04** (2013.01 - EP); **F25B 2313/0234** (2013.01 - EP); **F25B 2313/0254** (2013.01 - EP); **F28D 2021/0061** (2013.01 - EP)

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4317811 A1 20240207**; **EP 4317811 A4 20240501**; CN 117043519 A 20231110; JP 7442731 B2 20240304; JP WO2022201514 A1 20220929; US 2024175586 A1 20240530; WO 2022201514 A1 20220929

DOCDB simple family (application)  
**EP 21933119 A 20210326**; CN 202180096107 A 20210326; JP 2021012941 W 20210326; JP 2023508389 A 20210326; US 202118283214 A 20210326