

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE FRIGORIFIQUE

Publication
EP 4040084 B1 20240724 (EN)

Application
EP 20871516 A 20200929

Priority
• JP 2019180813 A 20190930
• JP 2020036920 W 20200929

Abstract (en)
[origin: US2022214085A1] An evaporator includes: fins disposed at a predetermined interval in a fin thickness direction; heat transfer tubes extending through the fins in the fin thickness direction; and a first heat exchange section in which, when the heat transfer tubes are viewed in the fin thickness direction, a center of distribution of the heat transfer tubes in an airflow direction is disposed on a leeward side of a center of the fins in the airflow direction. The evaporator is disposed in a refrigeration cycle apparatus in which a non-azeotropic refrigerant mixture is enclosed.

IPC 8 full level
F25B 39/02 (2006.01); **F25B 1/00** (2006.01); **F28D 5/00** (2006.01); **F28F 1/32** (2006.01)

CPC (source: CN EP US)
F25B 13/00 (2013.01 - CN); **F25B 39/00** (2013.01 - US); **F25B 39/02** (2013.01 - CN EP); **F28D 1/05333** (2013.01 - EP); **F28D 1/05383** (2013.01 - EP); **F28F 1/022** (2013.01 - CN); **F28F 1/32** (2013.01 - CN EP); **F28F 1/325** (2013.01 - US); **F25B 9/008** (2013.01 - EP); **F25B 13/00** (2013.01 - EP); **F25B 39/02** (2013.01 - US); **F25B 2313/02741** (2013.01 - CN); **F25B 2339/02** (2013.01 - CN); **F25B 2400/121** (2013.01 - EP); **F28D 2021/0071** (2013.01 - EP); **F28F 2215/12** (2013.01 - EP)

Designated contracting state (EPC)
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DOCDB simple family (publication)
US 2022214085 A1 20220707; CN 114450546 A 20220506; CN 114450546 B 20240116; EP 4040084 A1 20220810; EP 4040084 A4 20221116; EP 4040084 B1 20240724; JP 2021055957 A 20210408; JP 7425282 B2 20240131; WO 2021065913 A1 20210408

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US 202217705356 A 20220327; CN 202080067949 A 20200929; EP 20871516 A 20200929; JP 2019180813 A 20190930; JP 2020036920 W 20200929