

Title (en)
AIR CONDITIONER SYSTEM

Title (de)
KLIMAANLAGENSYSYSTEM

Title (fr)
SYSTÈME DE CLIMATISATION

Publication
EP 3734193 A4 20210224 (EN)

Application
EP 18896327 A 20181115

Priority
• CN 201711474413 A 20171229
• CN 2018115750 W 20181115

Abstract (en)
[origin: EP3734193A1] An air conditioner system, comprising a compressor (1), an indoor heat exchanger (2), a first throttling apparatus (3), and an outdoor heat exchanger (4) connected in series in a main loop. A heat exchanger (5) is further provided in the main loop; one side of the heat exchanger (5) is connected to a first pipeline (M) between the first throttling device (3) and the indoor heat exchanger (2), and the other side of the heat exchanger (5) is connected to a second pipeline (N) between the first throttling device (3) and the outdoor heat exchanger (4); a refrigerant passing through the first pipeline (M) and a refrigerant passing through the second pipeline (N) can carry out heat exchange in the heat exchanger (5). Therefore, not only the degree of supercooling of the refrigerant in the first pipeline (m) is effectively increased, evaporation of the refrigerant of the second pipeline (n) can be promoted, and thus the heating capacity of the system is improved.

IPC 8 full level
F25B 40/02 (2006.01); **F25B 40/00** (2006.01); **F25B 41/20** (2021.01); **F25B 41/31** (2021.01); **F25B 41/39** (2021.01)

CPC (source: CN EP)
F25B 13/00 (2013.01 - CN EP); **F25B 40/00** (2013.01 - EP); **F25B 41/20** (2021.01 - CN); **F25B 41/30** (2021.01 - CN); **F25B 41/39** (2021.01 - EP); **F25B 2313/02741** (2013.01 - CN); **F25B 2600/2513** (2013.01 - EP)

Citation (search report)
• [XY] JP 2011052884 A 20110317 - MITSUBISHI ELECTRIC CORP
• [Y] WO 2017215281 A1 20171221 - QINGDAO HAIER AIR CONDITIONER GENERAL CORP LTD [CN]
• [X] EP 3217115 A1 20170913 - MITSUBISHI ELECTRIC CORP [JP]
• [X] US 2017328614 A1 20171116 - YOKOZEKI ATSUIHIKO [JP], et al
• See references of WO 2019128519A1

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 3734193 A1 20201104; EP 3734193 A4 20210224; CN 108302839 A 20180720; JP 2021508024 A 20210225; WO 2019128519 A1 20190704

DOCDB simple family (application)
EP 18896327 A 20181115; CN 201711474413 A 20171229; CN 2018115750 W 20181115; JP 2020535566 A 20181115