

Title (en)
AIR-CONDITIONER SYSTEM

Title (de)
KLIMAANLAGENSYSYTEM

Title (fr)
SYSTÈME DE CLIMATISATION

Publication
EP 3734199 B1 20220727 (EN)

Application
EP 18894319 A 20181115

Priority
• CN 201711471669 A 20171229
• CN 2018115748 W 20181115

Abstract (en)
[origin: EP3734199A1] Disclosed is an air-conditioner system, comprising a compressor (1), an indoor heat-exchanger (2), a first throttling device (3) and an outdoor heat-exchanger (4) connected in series to a main circuit, with a heat exchange device (5) being further provided in the main circuit. A pipe between the first throttling device (3) and the indoor heat-exchanger (2) serves as a first pipe M, a pipe between the first throttling device (3) and the outdoor heat-exchanger (4) serves as a second pipe N, one side of the heat exchange device (5) is connected to the first pipe M, and the other side of the heat exchange device (5) is connected to the second pipe N. The first pipe M passes through one side of the heat exchange device (5), and the second pipe N passes through the other side of the heat exchange device (5). A refrigerant passing through the first pipe M and a refrigerant passing through the second pipe N can exchange heat in the heat exchange device (5). A first gas-liquid separator (6) is further provided in the main circuit, wherein the first gas-liquid separator (6) is located in a section of the second pipe N between the heat exchange device (5) and the outdoor heat-exchanger (4), and a bypass pipe L is provided between the first gas-liquid separator (6) and the compressor (1).

IPC 8 full level
F25B 47/02 (2006.01); **F25B 13/00** (2006.01); **F25B 40/00** (2006.01); **F25B 40/02** (2006.01); **F25B 41/00** (2021.01)

CPC (source: CN EP US)
F25B 13/00 (2013.01 - EP); **F25B 40/00** (2013.01 - EP US); **F25B 40/02** (2013.01 - CN); **F25B 41/20** (2021.01 - CN EP US); **F25B 41/39** (2021.01 - EP US); **F25B 47/022** (2013.01 - CN); **F25B 2313/0211** (2013.01 - CN); **F25B 2313/0213** (2013.01 - CN); **F25B 2400/13** (2013.01 - EP); **F25B 2500/09** (2013.01 - CN); **F25B 2500/31** (2013.01 - EP)

Citation (examination)
US 8763424 B1 20140701 - ALBERTSON LUTHER D [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

DOCDB simple family (publication)
EP 3734199 A1 20201104; **EP 3734199 A4 20210224**; **EP 3734199 B1 20220727**; CN 108375255 A 20180807; CN 108375255 B 20191206; JP 2021508025 A 20210225; JP 6982692 B2 20211217; WO 2019128517 A1 20190704

DOCDB simple family (application)
EP 18894319 A 20181115; CN 201711471669 A 20171229; CN 2018115748 W 20181115; JP 2020535567 A 20181115