

Title (en)
HEAT EXCHANGER AND AIR CONDITIONER

Title (de)
WÄRMETAUSCHER UND KLIMAAANLAGE

Title (fr)
ÉCHANGEUR DE CHALEUR ET CLIMATISEUR

Publication
EP 3473963 A1 20190424 (EN)

Application
EP 17883828 A 20171213

Priority
• JP 2016247153 A 20161220
• JP 2017044694 W 20171213

Abstract (en)
This heat exchanger is provided with: a plurality of heat transfer pipes which extend horizontally, allow a refrigerant to flow therethrough, and are arranged at a distance from each other in the vertical direction; a header section which is pipe shaped, extends in the vertical direction, and has an internal space to which one end of each of the plurality of heat transfer pipes is connected in a communicating manner; a vertical partition plate which, in a horizontal cross-section, extends inside the header section between the inner peripheral surface of the header section and the heat transfer pipes, divides the inside of the header section into a first chamber and a second chamber, the first and second chambers being in communication with each of the heat transfer pipes, and has formed therein a first communication section for providing communication between the first chamber and the second chamber at a position higher than or equal to the height of the uppermost heat transfer pipe of the heat transfer pipes; and a flow path which is connected only to the first chamber of the first chamber and the second chamber and through which a refrigerant flows.

IPC 8 full level
F28F 9/02 (2006.01); **F25B 39/00** (2006.01); **F28F 9/22** (2006.01)

CPC (source: EP)
F25B 39/00 (2013.01); **F28D 1/05375** (2013.01); **F28F 9/0214** (2013.01); **F28F 9/0243** (2013.01)

Cited by
EP4130638A4; EP4130637A4

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 3473963 A1 20190424; **EP 3473963 A4 20190703**; JP 2018100800 A 20180628; WO 2018116929 A1 20180628

DOCDB simple family (application)
EP 17883828 A 20171213; JP 2016247153 A 20161220; JP 2017044694 W 20171213