

Title (en)  
HEAT EXCHANGER AND AIR CONDITIONER

Title (de)  
WÄRMETAUSCHER UND KLIMAAANLAGE

Title (fr)  
ÉCHANGEUR DE CHALEUR ET CLIMATISEUR

Publication  
**EP 3425320 A4 20200401 (EN)**

Application  
**EP 17759461 A 20170123**

Priority  
• JP 2016038354 A 20160229  
• JP 2017002082 W 20170123

Abstract (en)  
[origin: EP3425320A1] This heat exchanger (10) includes: heat-transfer pipes (20); a header part to which one end of the heat-transfer pipes (20) is connected so as to be in communication with an internal space; a flow passage (56) that is connected to the inside of the header part so as to be in communication therewith and that has a refrigerant flowing therethrough; a main vertical partition plate (60) that divides a horizontal cross-section of the inside of the header part into an outflow-side region (63) that is connected to the heat-transfer pipes (20) and an inflow-side region (64) that is connected to the flow passage (56); and an inflow-side vertical partition plate (70) that divides a horizontal cross-section of the inflow-side region (64) into a first chamber (71) and a second chamber (72) that are adjacent to each other in the circumferential direction of the header part and that are in communication with the flow passage (56). A section of the main vertical partition plate (60) facing the first chamber (71) has formed therein a first horizontal through hole (61) that allows the first chamber (71) to communicate with the outflow-side region (63). A section of the main vertical partition plate (60) facing the second chamber (72) and at a different vertical-direction position from the first horizontal through hole (61) has formed therein a second horizontal through hole (62) that allows the second chamber (72) to communicate with the outflow-side region (63) .

IPC 8 full level  
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Citation (search report)  
• [I] JP H04174297 A 19920622 - ZEXEL CORP  
• [A] JP 2014533819 A 20141215  
• [A] US 2044455 A 19360616 - ERNST WITZEL  
• See references of WO 2017149989A1

Cited by  
EP3922941A4; AU2020255434B2; EP4130612A4; EP4130639A4; EP4130637A4; WO2023222613A1

Designated contracting state (EPC)  
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