

Title (en)
OUTDOOR UNIT FOR AIR CONDITIONER, AND AIR CONDITIONER

Title (de)
AUSSENEINHEIT FÜR KLIMAANLAGE SOWIE KLIMAANLAGE

Title (fr)
UNITÉ EXTÉRIEURE POUR CLIMATISEUR, ET CLIMATISEUR

Publication
EP 3521712 A4 20200101 (EN)

Application
EP 17856120 A 20170926

Priority
• JP 2016187900 A 20160927
• JP 2017034721 W 20170926

Abstract (en)
[origin: EP3521712A1] An outdoor unit (1) includes a heat exchanger (5), a blower fan (6), an electronic board (9) on which a heat-generating element (10) is mounted, a housing (2), and a heatsink (8). The housing (2) includes a partition plate (23) partitioning the inside of the housing into a heat exchanger chamber (H) in which the heat exchanger (5) and the blower fan (6) are placed and a machine chamber (M) in which the electronic board (9) and a compressor (7) are placed, and a portion of the partition plate (23) has an opening (232a). The heatsink (8) includes a main plate (81) placed to cover the opening (232a) from the heat-exchanger-room-(H) side of the partition plate (23) and heat-releasing fins (82) projecting from the main plate (81) to the blower fan-(23) side, and a portion of the main plate (81) comes into contact with the heat-generating element (10) via the opening (232a). The greater the amounts of heat transferred from the heat-generating element (10) the heat-releasing fins (82), the larger the heat-releasing fins (82).

IPC 8 full level
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Citation (search report)
• [X] WO 2014024405 A1 20140213 - TOSHIBA CARRIER CORP [JP]
• [X] JP 2012233614 A 20121129 - SANYO ELECTRIC CO
• [A] CN 204539700 U 20150805 - GUANDONG MIDEA HVAC EQUIPMENT, et al
• [A] CN 204648517 U 20150916 - MITSUBISHI ELECTRIC CORP
• [A] CN 105953318 A 20160921 - GREE ELECTRIC APPLIANCES INC ZHUHAI
• [A] JP 2004271168 A 20040930 - SANYO ELECTRIC CO, et al
• [A] US 2011214443 A1 20110908 - OKA TAKANORI [JP], et al
• See references of WO 2018062170A1

Designated contracting state (EPC)
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EP 17856120 A 20170926; CN 201780056441 A 20170926; JP 2017034721 W 20170926; JP 2018542592 A 20170926; JP 2020154212 A 20200915; US 201716325491 A 20170926