

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 2650619 A4 20180411 (EN)**

Application  
**EP 11847396 A 20110922**

Priority  
• JP 2010273775 A 20101208  
• JP 2011071713 W 20110922

Abstract (en)  
[origin: EP2650619A1] Provided is an air conditioner that can provide information from which the root cause of an error can be estimated in the event of a fault without depending on the ability of the service personnel. An air conditioner (1) includes a controller (12) that controls operation of the air conditioner (1) on the basis of information from sensors (8) and operating information from devices (9, 10, 11) and that executes, for example, protection control, error detection, and abnormal shutdown thereof. The controller (12) includes a root-cause-of-fault-estimation-data acquiring section (13) that computes at least first to third most-frequent protection control factors and error detection factors among a plurality of preset protection control factors and error detection factors, that ranks and stores the factors, and that allows the stored information to be displayed when necessary.

IPC 8 full level  
**F24F 11/30** (2018.01); **F25B 49/00** (2006.01)

CPC (source: EP US)  
**F24F 11/30** (2017.12 - EP); **F24F 11/38** (2017.12 - EP US); **F24F 11/32** (2017.12 - EP); **F24F 11/52** (2017.12 - EP); **F25B 49/005** (2013.01 - EP)

Citation (search report)  
• [X] DE 3140273 A1 19820722 - GEN ELECTRIC [US]  
• [Y] JP 2576314 B2 19970129  
• [Y] JP H1030835 A 19980203 - NTT FACILITIES KK, et al  
• [Y] JP 2001033355 A 20010209 - MEIWA ELECTRIC CO  
• [Y] JP 2005121302 A 20050512 - HITACHI LTD  
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• [Y] JP H07318205 A 19951208 - MATSUSHITA REFRIGERATION  
• See references of WO 2012077398A1

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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 2650619 A1 20131016; EP 2650619 A4 20180411**; CN 103314260 A 20130918; JP 2012122668 A 20120628; WO 2012077398 A1 20120614

DOCDB simple family (application)  
**EP 11847396 A 20110922**; CN 201180037216 A 20110922; JP 2010273775 A 20101208; JP 2011071713 W 20110922