

Title (en)
AIR CONDITIONER AND CONTROL METHOD THEREOF

Title (de)
KLIMAANLAGE UND STEUERVERFAHREN DAFÜR

Title (fr)
CLIMATISEUR ET PROCEDE DE COMMANDE CORRESPONDANT

Publication
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Application
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Abstract (en)
[origin: EP1696185A1] The present invention provides an air conditioner and a method for controlling an air conditioner whereby the direction in which conditioned air is discharged during powerful operation can be controlled. The air conditioner (1) is provided with a control unit (60). The control unit (60) is connected to a compressor (21), a four-way switching valve (22), a pressure-reducing device (25), ROM (41), RAM (42), a fan motor (13), a flap motor (146), a temperature sensor (43), and an infrared sensor (44). The control unit (60) controls the compressor (21), four-way switching valve (22), pressure-reducing device (25), fan motor (13), and flap motor (146). When a command for powerful operation is entered from the remote control (40), the control unit (60) temporarily increases the rotational speed of the cross-flow fan (12), the operating frequency of the compressor (21), and the like, enhances the air conditioning capacity, and controls the direction of the horizontal flap (144) according to the direction in which people are present in the room.

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Citation (search report)
• [XY] JP H05187682 A 19930727 - MITSUBISHI ELECTRIC CORP
• [XY] US 5180333 A 19930119 - SHYU JIA-MING [TW]
• [Y] US 5331825 A 19940726 - KIM TAE D [KR]
• [Y] US 5815078 A 19980929 - MUN JOONG-KI [KR], et al
• [Y] GB 2231688 A 19901121 - MITSUBISHI ELECTRIC CORP [JP]
• [Y] US 4729293 A 19880308 - TSUNODA HIDEO [JP], et al
• See references of WO 2005043047A1

Cited by
EP2530395A4

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