

Title (en)  
MONITORING DEVICE AND METHOD FOR AIR CONDITIONER

Title (de)  
ÜBERWACHUNGSVORRICHTUNG UND VERFAHREN FÜR EINE KLIMAANLAGE

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE SUIVI POUR CLIMATISEUR

Publication  
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Application  
**EP 15890718 A 20150428**

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Abstract (en)  
[origin: EP3290816A1] According to the present invention, provided is a monitoring apparatus for monitoring air-conditioning apparatuses (109), the air-conditioning apparatuses each being configured to perform air-conditioning of a target space and each including a refrigerant circuit in which the refrigerant is circulated, the refrigerant circuit including at least a compressor (1), a heat source-side heat exchanger (3), an expansion device, and a use-side heat exchanger. The monitoring apparatus (109) includes: a storage device (105) configured to store operation data indicating an operation state of each of the air-conditioning apparatuses (101); and a monitoring processing device configured to perform abnormality detection by extracting, from the storage device (105), operation data that is within a range of equality in an extraction condition including a kind of the refrigerant and a specification of a device included in a first air-conditioning apparatus (101 a) that is a target of monitoring by the monitoring apparatus; and comparing the extracted operation data with operation data of the air-conditioning apparatus (101 a) that is the target of monitoring.

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Citation (search report)

- [X] WO 2014064792 A1 20140501 - MITSUBISHI ELECTRIC CORP [JP], et al & US 2015184880 A1 20150702 - KAWAMURA MASATOSHI [JP]
- [X] US 2014297208 A1 20141002 - ARENSMEIER JEFFREY N [US]
- [A] US 2003079483 A1 20030501 - KOMATSU TOMOHIRO [JP], et al
- [A] EP 2239518 A2 20101013 - MITSUBISHI ELECTRIC CORP [JP]
- See also references of WO 2016174734A1

Cited by  
US2022034568A1; EP4155630A4; US11204184B2

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