

Title (en)

METHOD, DEVICE AND MEDIUM FOR CONTROLLING AIR COMPRESSOR IN AIR COMPRESSION STATION

Title (de)

VERFAHREN, VORRICHTUNG UND MEDIUM ZUR STEUERUNG EINES LUFTKOMPRESSORS IN EINER LUFTKOMPRESSSIONSSTATION

Title (fr)

PROCÉDÉ, DISPOSITIF ET SUPPORT DE COMMANDE DE COMPRESSEUR D'AIR DANS UNE STATION DE COMPRESSION D'AIR

Publication

**EP 4296514 A1 20231227 (EN)**

Application

**EP 23174400 A 20230519**

Priority

CN 202210546714 A 20220520

Abstract (en)

Embodiments of the present disclosure provide methods, devices and medium for controlling an air compression station. A method comprises: acquiring an instantaneous flow of the air compression station based on sampling time; determining relationship between an instantaneous flow of the air compression station and time based on the sampling time and the acquired instantaneous flow; determining one or more index values of a flow of the air compressor station during one or more time windows based on the determined relationship; determining a period during which a flow of an air compression station remains stable based on the determined one or more index values; and during the determined period, adjusting a combination of air compressors in the air compression station such that an air production amount and an air consumption amount of air compressors in the air compression station are matched. With such a method, it is possible to realize "active control" of an air compression station so as to combine air compressors to supply air in an optimal manner based on characteristics of the demand for air to reduce pressure fluctuation of a pipe network so as to achieve the purpose of energy saving.

IPC 8 full level

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CPC (source: CN EP)

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Citation (search report)

- [A] CN 113464415 B 20211203
- [A] CN 112412763 A 20210226 - MOGU IOT TECH SHENZHEN CO LTD
- [A] DE 19648589 A1 19980528 - COMPRAIN MAHLE GMBH [DE]
- [A] CN 114109792 A 20220301 - MUSHROOM INTERNET OF THINGS TECH SHENZHEN LIMITED COMPANY

Designated contracting state (EPC)

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