

Title (en)

Method of controlling over-load cooling operation of air conditioner

Title (de)

Verfahren zur Überlastkühlungsregelung einer Klimaanlage

Title (fr)

Méthode de régulation de surcharge de refroidissement d'un système de conditionnement d'air

Publication

**EP 1677058 A3 20120111 (EN)**

Application

**EP 05028036 A 20051221**

Priority

KR 20040113566 A 20041228

Abstract (en)

[origin: EP1677058A2] A method of controlling an over-load cooling operation of an air conditioner includes over-load operation mode in which, when an outdoor pipe temperature and an outdoor temperature exceeds reference temperatures, respectively, the operation capacity is changed to a low-level operation capacity, which is lower than the current operation capacity, the low-level operation capacity being one of plural operation capacities set according to the operation capacities of compressors (51, 52), and the operation is performed, and normal operation mode in which the outdoor pipe temperature is measured every predetermined period of time after the operation is performed in the over-load operation mode, and, when the measured outdoor pipe temperature is below the reference temperature, the operation is performed according to a signal from a thermostat (70). The continuous cooling operation is possible even under the over-load condition during the cooling operation of the air conditioner, and the air conditioner system is protected through the variable-capacity operation. Consequently, the present invention has the effect of improving user comfort and improving operational reliability of the air conditioner.

IPC 8 full level

**F25B 49/02** (2006.01); **F24F 11/00** (2006.01)

CPC (source: EP KR US)

**F24F 3/06** (2013.01 - KR); **F24F 11/83** (2017.12 - EP US); **F24F 11/84** (2017.12 - EP KR US); **F24F 11/86** (2017.12 - EP KR US); **F25B 13/00** (2013.01 - KR); **F25B 49/005** (2013.01 - EP KR US); **F25B 13/00** (2013.01 - EP US); **F25B 2313/0315** (2013.01 - EP KR US); **F25B 2400/0751** (2013.01 - EP KR US); **F25B 2500/08** (2013.01 - EP KR US); **F25B 2500/29** (2013.01 - EP KR US); **F25B 2600/0251** (2013.01 - EP KR US); **F25B 2700/2106** (2013.01 - EP KR US); **F25B 2700/2116** (2013.01 - KR)

Citation (search report)

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