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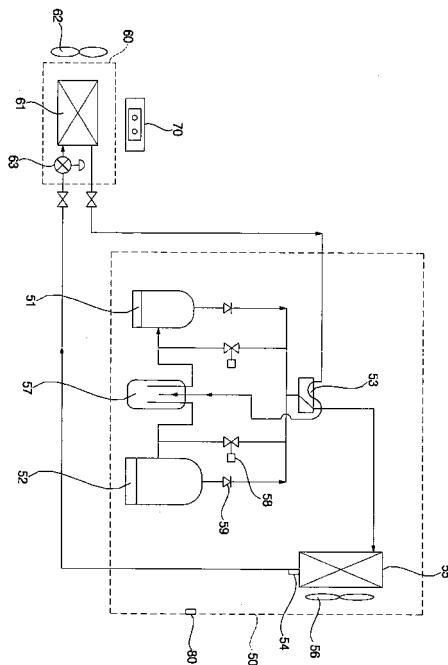
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## (54) Method of controlling over-load cooling operation of air conditioner

(57) 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.

FIG. 2





## EUROPEAN SEARCH REPORT

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1	Place of search The Hague	Date of completion of the search 7 December 2011	Examiner de Graaf, Jan Douwe
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document			

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