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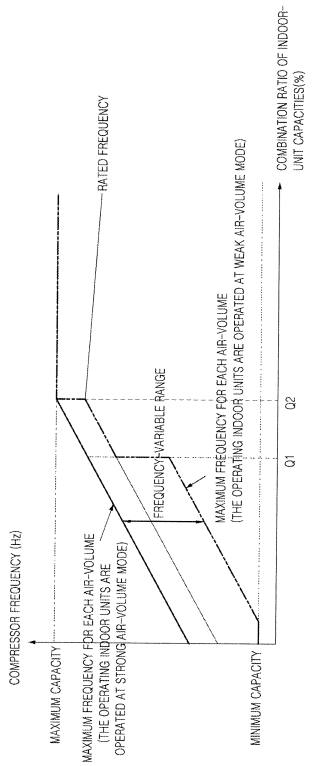
(54) Multi-system air-conditioner and method for controlling the same

(57) A multi-system air-conditioner for limiting a frequency-rising width of a compressor according to the air-volume of the indoor units, and enabling the indoor units to discharge the most comfortable-temperature air irrespective of the setup air-volume of the indoor units. The multi-system air-conditioner includes an outdoor unit, a plurality of indoor units connected to the outdoor unit, and a compressor for varying its own frequency according to operation capacity of the indoor units. The method for operating the multi-system air-conditioner includes: comparing, by each of the indoor units, a setup temperature with a room temperature, and calculating a capacity required for each indoor unit; calculating the sum of all the required capacities of the indoor units to calculate a combination ratio of all the operating indoor units; and comparing the calculated combination ratio with a reference combination ratio to determine whether the combination ratio of the indoor units is equal to or less than the reference combination ratio, limiting a frequency-rising width of the compressor to a predetermined value according to air-volumes of the operating indoor units when the calculated combination ratio is equal to or less than the reference combination ratio, and operating the air-conditioner at the limited value.

FIG. 5



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EUROPEAN SEARCH REPORT

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F24F
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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	10 September 2013	Vuc, Arianda

CATEGORY OF CITED DOCUMENTS

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