

Title (en)
COMPOSITE REFRIGERATOR HAVING MULTI-CYCLE REFRIGERATION SYSTEM AND CONTROL METHOD THEREOF

Title (de)
VERBUND-KÜHLSCHRANK MIT EINEM MULTIZYKLUS-KÜHLSYSTEM UND STEUERVERFAHREN DAFÜR

Title (fr)
REFRIGERATEUR COMPOSITE POSSEDANT UN SYSTEME DE REFRIGERATION A CYCLES MULTIPLES ET SON PROCEDE DE CONTROLE

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Application
EP 04797376 A 20041124

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Abstract (en)
The present invention discloses a refrigerator having a compression device provided with several refrigeration loops arranged in series or in parallel, which comprises a main CPU, a temperature sensor and a refrigeration cycle loop, wherein the refrigeration cycle loop is composed of a compressor, a condenser, a main capillary, a freezing evaporator, a refrigerating evaporator and a gas returning pipe connected in series. A solenoid valve having two output ports is connected to the downstream of the condenser. One of the output ports is connected to the main capillary and the other is connected an auxiliary refrigerating cycle branch. The present invention solves the contradiction between the refrigeration efficiency and the function of stopping freezing, and it can optimize the system efficiency in the normal using state in which the refrigerating chamber and the freezing chamber are used simultaneously and reduce the power consumption effectively, and at the same time it can further realize the function of closing the freezing chamber and convert the refrigerating chamber into a freezing chamber of different gradation.

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