

Title (en)

CONTROL SYSTEM FOR REFRIGERATING MACHINE EMPLOYING NON-AZEOTROPIC REFRIGERANT

Title (de)

STEUERVORRICHTUNG FÜR EINE EIN NICHT AZEOTROPES KÄLTEMITTEL EINSETZENDE KÄLTEMASCHINE

Title (fr)

SYSTÈME DE COMMANDE POUR MACHINE RÉFRIGÉRANTE EMPLOYANT UN RÉFRIGÉRANT NON AZÉOTROPE

Publication

**EP 1923645 A1 20080521 (EN)**

Application

**EP 06766729 A 20060614**

Priority

- JP 2006311961 W 20060614
- JP 2005260151 A 20050908

Abstract (en)

Issues to be solved On a refrigerator using non-azeotropic refrigerants, its cooling-capability is improved at starting up and/or at going up interior room temperature. Means as solution On a single-stage type refrigerating system using non-azeotropic refrigerant, composing with a compressor (1), a condenser (2), and an evaporator (10), heat exchanging between returned-refrigerant from evaporator and high-pressure refrigerant toward evaporator, electromagnetic valves (5-1 to 5-4) of capillary tubes (6-1 to 6-4) as expansion valves of evaporator are fully open, at moments of large load needed such as at starting up, the system is controlled flux of refrigerant gas and pressure of it by closing them one by the other corresponding to going down of interior room temperature. As the state of interior room temperature is high and low boiling point constituent is not condensed, cooling capability of high boiling point refrigerant performs in maximum.

IPC 8 full level

**F25B 1/00** (2006.01)

CPC (source: EP KR US)

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