

Title (en)
Refrigerating cycle

Title (de)
Kältekreislauf

Title (fr)
Cycle frigorifique

Publication
EP 0715134 A2 19960605 (EN)

Application
EP 95117514 A 19951107

Priority
JP 29532094 A 19941129

Abstract (en)
In a refrigerating cycle (air conditioner) using mixture refrigerant, a mixing ratio of the refrigerant in a refrigerant circuit is measured by a mixing ratio detector (W1), and a controller (21) receives the detection signal to open a control valve (13) when the mixing ratio of a high boiling-point refrigerant component is low, whereby the high boiling-point refrigerant stocked in a liquid reservoir (14) is returned to the refrigerant circuit. The high boiling-point refrigerant which is supplied from the liquid reservoir (14) through the opening operation of the control valve (13) is supplied from a low pressure side of a compressor (1) into the refrigerant circuit to keep the mixing ratio of the refrigerant circulating in the refrigerant circuit to a predetermined value, thereby preventing abnormal increase of pressure of the refrigerant due to variation of the mixing ratio.

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IPC 8 full level
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F25B 9/006 (2013.01 - EP US); **F25B 13/00** (2013.01 - KR); **F25B 41/24** (2021.01 - EP KR US); **F25B 13/00** (2013.01 - EP);
F25B 2400/16 (2013.01 - EP)

Citation (applicant)
JP S542561 A 19790110 - TOKYO SHIBAURA ELECTRIC CO

Cited by
EP0898133A3; EP1106940A3; EP1296132A1; EP0898128A3; CN112789458A; EP3859243A4; AU2019347228B2; AU2019347228B9;
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