

Title (en)
A refrigerating cycle

Title (de)
Kältekreislauf

Title (fr)
Circuit frigorifique

Publication
EP 0916914 A2 19990519 (EN)

Application
EP 98118939 A 19981007

Priority
• JP 31326197 A 19971114
• JP 8863798 A 19980401
• JP 17042398 A 19980618

Abstract (en)
A refrigerating cycle with a by-pass duct 5 in which heat exchange for heating is arranged to be performed in an evaporator 4 without passing refrigerant through a condenser 2 is designed to perform an auxiliary heating mode suitable for the instantaneous conditions by controlling the amount of refrigerant circulating in response to the load and the like. Said by-pass duct 5 for supplying the refrigerant from the compressor 1 to the evaporator 4 without passing it through the condenser 2 is placed in juxtaposition. Between the outlet of the evaporator 4 and the inlet of the compressor 1 an accumulator 6 for temporarily storing low-pressure refrigerant liquid is provided so that the amount of refrigerant circulating is controlled by accumulator 6 while the refrigerant circulates via by-pass duct 5 without passage through condenser 2. <IMAGE>

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IPC 8 full level
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F25B 41/20 (2021.01 - EP US); **F25B 41/24** (2021.01 - EP US); **F25B 41/22** (2021.01 - EP US); **F25B 43/006** (2013.01 - EP); **F25B 2400/0403** (2013.01 - EP); **F25B 2400/0411** (2013.01 - EP)

Cited by
CN106766423A; EP3658836A4; CN104713274A; CN105588354A; US11365906B2; WO2013120735A1; EP1039250A2; US6351959B1; WO2024032116A1

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