

Title (en)
A refrigerating cycle

Title (de)
Kältekreislauf

Title (fr)
Circuit frigorifique

Publication
EP 0916914 A3 20020102 (EN)

Application
EP 98118939 A 19981007

Priority

- JP 31326197 A 19971114
- JP 8863798 A 19980401
- JP 17042398 A 19980618

Abstract (en)
[origin: EP0916914A2] 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>

IPC 1-7
F25B 41/04; B60H 1/00

IPC 8 full level
F25B 1/00 (2006.01); **B60H 1/22** (2006.01); **F25B 41/04** (2006.01); **F25B 43/00** (2006.01)

CPC (source: EP US)
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)

Citation (search report)

- [XDA] US 5291941 A 19940308 - ENOMOTO MASAYOSHI [JP], et al
- [XA] US 5477700 A 19951226 - IIO MASAHIRO [JP]
- [XA] US 5419149 A 19950530 - HARA JUNICHIRO [JP], et al
- [XA] US 5404729 A 19950411 - MATSUOKA TAKAYOSHI [JP], et al
- [XA] GB 2149900 A 19850619 - FERGUSON SEACABS LIMITED
- [XA] US 5319940 A 19940614 - YAKASKI ROBERT [US]
- [A] FR 2717126 A1 19950915 - VALEO THERMIQUE HABITACLE [FR]
- [A] US 3922875 A 19751202 - MORRIS JR WILLIAM F
- [A] US 3942333 A 19760309 - KISH ARTHUR S
- [A] US 5070707 A 19911210 - NI SHIMAO [US]

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

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0916914 A2 19990519; EP 0916914 A3 20020102; JP 3481138 B2 20031222; JP H11344263 A 19991214

DOCDB simple family (application)
EP 98118939 A 19981007; JP 17042398 A 19980618