Title (en)

AIR TEMPERATURE CONDITIONING SYSTEM

Publication

EP 0077414 B1 19870114 (EN)

Application

EP 81108580 A 19811020

Priority

EP 81108580 A 19811020

Abstract (en)

[origin: EP0077414A1] A refrigeration cycle apparatus in which the loss of energy encountered during stopping and starting of the compressor is reduced and in which heating can be continuously carried out even when defrosting an outdoor heat exchanger. A compressor (1), a condenser (4), an expansion device (6) and an evaporator (7) are connected in series with one another with the compressor (1) being coupled to a device such as a thermostat when repeatedly starts and stops the compressor (1) in response to a sensed room temperature. The refrigerant on the high pressure side of the compressor is isolated from the refrigerant on the low pressure side of the compressor when the compressor is stopped by a suitable arrangement (5, 2) so that no high back pressure is imposed upon the compressor when it is started.

IPC 1-7

F25B 41/04; F25B 13/00

IPC 8 full level

F25B 13/00 (2006.01); **F25B 41/04** (2006.01); F25B 47/02 (2006.01)

CPC (source: EP US)

F25B 13/00 (2013.01 - EP US); **F25B 41/20** (2021.01 - EP US); **F25B 41/24** (2021.01 - EP US); F25B 47/022 (2013.01 - EP)

Cited by

CN112650315A; US4750672A; EP0297656A1; US4966013A; FR2651034A1; US9418281B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0077414 A1 19830427; **EP 0077414 B1 19870114**; DE 3175833 D1 19870219; DE 3177054 D1 19890622

DOCDB simple family (application)

EP 81108580 A 19811020; DE 3175833 T 19811020; DE 3177054 T 19811020