

Title (en)

A lubrication oil returning system for refrigeration compressors.

Title (de)

Schmieröl-Rückführungssystem für Kältekompressoren.

Title (fr)

Système de retour d'huile de lubrification pour compresseur frigorifique.

Publication

EP 0607101 A1 19940720 (EN)

Application

EP 94610002 A 19940114

Priority

DK 4093 A 19930114

Abstract (en)

Compressors 1, 2, 3, and 4 run in parallel have common suction line, pressure line, and oil separator 9. Dependent on the requirement for cooling only the required number of refrigerating compressors are made to operate. The oil from the oil separator is sucked into the sumps of the compressors, and the compressor(s) which is/are running suck required oil through oil level equalization pipes E1, E2, E3, E4, and E from the sumps of the other compressors. When the oil level in these has sunk to the level where the pipe ends are exposed, no more oil may be removed from the non-operative compressors, and these will have the amount necessary available for starting operation when required. This is obtained without individual float valves on the sumps by ensuring a lower pressure in the sump of the operative compressors than in the suction line. This difference in pressure is obtained by means oil a difference pressure element which may be an orifice, a calibrated pipe, or a throttle valve.

IPC 1-7

F25B 1/00; **F25B 31/00**

IPC 8 full level

F25B 31/00 (2006.01)

CPC (source: EP)

F25B 31/002 (2013.01); **F25B 2400/075** (2013.01)

Citation (search report)

- [XY] US 4411141 A 19831025 - HARA AKIRA [JP]
- [Y] US 3386262 A 19680604 - HACKBART REUBEN J, et al
- [A] EP 0438835 A2 19910731 - ARNEG [IT]
- [A] FR 2189689 A1 19740125 - WESTINGHOUSE ELECTRIC CORP [US]

Cited by

EP0961090A3; EP1550832A1; EP0961091A3; WO2009039873A1

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL PT SE

DOCDB simple family (publication)

EP 0607101 A1 19940720; DK 4093 A 19940912; DK 4093 D0 19930114

DOCDB simple family (application)

EP 94610002 A 19940114; DK 4093 A 19930114