

Title (en)

Hermetic compressor and refrigerating air conditioners using it

Title (de)

Hermetischer Verdichter und damit ausgerüstete Kälteanlagen durch Luftklimatisierung

Title (fr)

Compresseur hermétique et dispositifs de réfrigération par conditionnement de l'air l'utilisant

Publication

EP 0881393 A1 19981202 (EN)

Application

EP 97108582 A 19970528

Priority

- EP 97108582 A 19970528
- CN 97110122 A 19970417
- JP 31625495 A 19951205

Abstract (en)

The object of the present invention is to provide equipment that has complete safety against leakage of refrigerants from pin holes produced on a compressor that is intended for refrigerating air conditioners using refrigerants that are heavier than air and flammable. A junction 5a of a hermetic container, where pin holes are most likely to be formed, is arranged to be located below a control box 28 which has the possibility of becoming a source of ignition. The mixture ratio between air and refrigerants that might leak from pin holes produced in the welded junction 5a and the like of a hermetic container 2 of a hermetic compressor 1 is prevented from reaching a ratio where ignition takes place inside of an air conditioner. As a result, a refrigerating air conditioner having complete safety is realized. <IMAGE>

IPC 1-7

F04C 23/00

IPC 8 full level

F04B 39/00 (2006.01); **F04C 23/00** (2006.01); **F04C 28/28** (2006.01); **F25B 31/02** (2006.01)

CPC (source: EP)

F04C 23/008 (2013.01); **F04C 28/28** (2013.01); **F04C 2210/26** (2013.01); **F04C 2270/70** (2013.01); **F25B 2400/12** (2013.01)

Citation (search report)

- [A] EP 0738024 A2 19961016 - SANYO ELECTRIC CO [JP], et al
- [A] EP 0719995 A2 19960703 - TOSHIBA KK [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 96, no. 7 31 July 1996 (1996-07-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 96, no. 12 26 December 1996 (1996-12-26)
- [A] PATENT ABSTRACTS OF JAPAN vol. 96, no. 11 29 November 1996 (1996-11-29)

Cited by

US11085443B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0881393 A1 19981202; **EP 0881393 B1 20040804**; CN 1104606 C 20030402; CN 1196472 A 19981021; JP H09158838 A 19970617

DOCDB simple family (application)

EP 97108582 A 19970528; CN 97110122 A 19970417; JP 31625495 A 19951205