

Title (en)

Suction tube seal for a rotary compressor.

Title (de)

Ansaugrohrdichtung für Rotationsverdichter.

Title (fr)

Joint d'étanchéité pour tube d'aspiration d'un compresseur rotatif.

Publication

EP 0183332 A1 19860604 (EN)

Application

EP 85304276 A 19850614

Priority

US 67030684 A 19841113

Abstract (en)

In a rotary hermetic compressor, a suction tube seal (104) is provided between the cylinder (37) and the suction tube (24). The suction tube end (100) extends through the housing (10) of the hermetic compressor and is sealingly secured thereto such as by welding. The compressor cylinder (37), which is located in the housing (10) has an aperture (90) in the cylindrical wall thereof for receiving the end (100) of the suction tube (24) extending into the housing (10). The inside diameter of the aperture is greater than the outside diameter of the suction tube so that the suction tube is slidably axially received in the aperture. The suction tube (24) is sealed to the cylinder (37) by flexible sealing means (104) which is interposed between the outside of the suction tube and the inside of the aperture. The sealing means is preferably an O ring (104) constructed of oil resistant, flexible rubber material.

IPC 1-7

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IPC 8 full level

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F04B 39/123 (2013.01); **F04C 23/008** (2013.01); **F04C 29/12** (2013.01); **F25B 43/006** (2013.01)

Citation (search report)

- [X] US 3031861 A 19620501 - MCCORMACK ALEX A
- [X] US 2214086 A 19400910 - RATAICZAK FRANCIS I
- [X] US 2373909 A 19450417 - PENN MELVIN P
- [Y] DE 3312564 A1 19831103 - HITACHI LTD [JP]
- [Y] US 3871800 A 19750318 - SLAYTON CURTIS R
- [A] US 3209991 A 19651005 - STUART SAUBER RUDOLPH
- [A] FR 2370244 A1 19780602 - DANFOSS AS [DK]
- [Y] PATENTS ABSTRACTS OF JAPAN, vol. 6, no. 228 (M-171) [1106], 13th November 1982; & JP - A - 57 129 285 (HITACHI SEISAKUSHO K.K.) 11-08-1982

Cited by

EP0735269A3; CN113883764A; EP1359324A3; EP0322561A3; CN1108455C; EP0386320A1; EP0377092A3; EP1020646A1; CN1092764C; EP0882894A3; EP2184493A4

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