

Title (en)

Suction structure in piston type compressor

Title (de)

Saugstruktur in einem Kolbenverdichter

Title (fr)

Structure d'aspiration dans un compresseur de type à piston

Publication

EP 2034183 A2 20090311 (EN)

Application

EP 08163561 A 20080903

Priority

JP 2007229239 A 20070904

Abstract (en)

A suction structure allows refrigerant from a suction pressure region in a piston type compressor. The suction structure includes a shifting device, a bleed passage, and a check valve. The shifting device has a valve body, a return spring, a backpressure chamber, and a backpressure passage. The valve body is movable between a connecting position and a disconnecting position. The return spring urges the valve body from the connecting position toward the disconnecting position. The backpressure chamber is defined by the valve body. The backpressure passage communicates with the suction pressure region and the backpressure chamber. The bleed passage communicates with the suction pressure region and the backpressure chamber. The check valve allows a fluid to flow from the backpressure chamber into the bleed passage.

IPC 8 full level

F04B 27/18 (2006.01)

CPC (source: EP US)

F04B 27/1804 (2013.01 - EP US); **F04B 2027/1859** (2013.01 - EP US)

Citation (applicant)

- JP H07119631 A 19950509 - NIPPON DENSO CO
- JP 2006083835 A 20060330 - TOYOTA IND CORP
- JP S6488064 A 19890403 - HITACHI LTD, et al
- JP 2000145629 A 20000526 - TGK CO LTD
- JP H07119631 A 19950509 - NIPPON DENSO CO
- JP H07139474 A 19950530 - TOYODA AUTOMATIC LOOM WORKS
- JP 2000145629 A 20000526 - TGK CO LTD

Designated contracting state (EPC)

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