

Title (en)  
REFRIGERANT COMPRESSOR

Title (de)  
KÄLTEMITTELKOMPRESSOR

Title (fr)  
COMPRESSEUR DE REFRIGERATION

Publication  
**EP 1541868 A1 20050615 (EN)**

Application  
**EP 04732026 A 20040510**

Priority  

- JP 2004006578 W 20040510
- JP 2003133120 A 20030512
- JP 2004120162 A 20040415

Abstract (en)  
A valve plate includes a plurality of suction holes and a plurality of suction reed valves for opening and closing them. At least two of these suction reed valves have different natural frequencies. In this configuration, a natural frequency of one reed valve is larger. Therefore, even when an operation frequency is changed to a higher frequency, the compressor can suck a refrigerant gas into a cylinder efficiently without occurring delayed closing and reduction of a lift amount. Thus, refrigerating capacity and compression efficiency can be increased. <IMAGE>

IPC 1-7  
**F04B 39/10**

IPC 8 full level  
**F04B 39/00** (2006.01); **F04B 39/10** (2006.01)

CPC (source: EP KR US)  
**F04B 39/0005** (2013.01 - KR); **F04B 39/0027** (2013.01 - EP KR US); **F04B 39/0088** (2013.01 - EP KR US); **F04B 39/1066** (2013.01 - KR); **F04B 39/1073** (2013.01 - EP KR US); **F04B 39/12** (2013.01 - KR); **F05B 2210/12** (2013.01 - KR)

Cited by  
FR2895037A1; CN104619987A; EP2909480A4; US11236748B2; US11767838B2; US11619228B2; WO2007071665A1; US10094600B2; US10928108B2; US10995974B2; US11248605B1; WO2024101596A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 1541868 A1 20050615**; **EP 1541868 A4 20051214**; JP 2004360686 A 20041224; KR 20050033613 A 20050412; US 2006039808 A1 20060223; WO 2004099617 A1 20041118

DOCDB simple family (application)  
**EP 04732026 A 20040510**; JP 2004006578 W 20040510; JP 2004120162 A 20040415; KR 20057000992 A 20050119; US 52251405 A 20050127