

Title (en)
REFRIGERANT COMPRESSOR

Title (de)
KÄLTEMITTELKOMPRESSOR

Title (fr)
COMPRESSEUR DE REFRIGERATION

Publication
EP 1541868 A4 20051214 (EN)

Application
EP 04732026 A 20040510

Priority
• JP 2004006578 W 20040510
• JP 2003133120 A 20030512
• JP 2004120162 A 20040415

Abstract (en)
[origin: EP1541868A1] 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)

Citation (search report)
• [XY] US 6206655 B1 20010327 - TANAKA YASUHIKO [JP], et al
• [XY] EP 1054157 A2 20001122 - TOYODA AUTOMATIC LOOM WORKS [JP]
• [Y] EP 1255042 A2 20021106 - CALSONIC KANSEI CORP [JP]
• [A] EP 0845595 A1 19980603 - MATSUSHITA REFRIGERATION [JP] & JP 2000329066 A 20001128 - TOYODA AUTOMATIC LOOM WORKS & JP 2002332968 A 20021122 - CALSONIC KANSEI CORP & WO 9747882 A1 19971218 - MATSUSHITA REFRIGERATION [JP], et al
• [Y] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 08 5 August 2002 (2002-08-05)
• [Y] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02 30 January 1998 (1998-01-30)
• [Y] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02 30 January 1998 (1998-01-30)
• See references of WO 2004099617A1

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Designated contracting state (EPC)
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DOCDB simple family (application)
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