

Title (en)
Variable displacement compressor

Title (de)
Kompressor mit veränderlicher Verdrängung

Title (fr)
Compresseur à déplacement variable

Publication
EP 1531266 A3 20060111 (EN)

Application
EP 04026808 A 20041111

Priority
• JP 2003386004 A 20031114
• JP 2004014766 A 20040122

Abstract (en)
[origin: EP1531266A2] A variable displacement compressor (10) including a hinge mechanism (19) that is easily machined. The hinge mechanism is arranged in the compressor between the lug plate (17) and the cam plate (18). The hinge mechanism includes a support (20) formed on the cam plate. A spherical projection (23) extends from the support in a direction rearward with respect to the direction a drive shaft (16) rotates. A roller (22) extends from the support in a direction forward with respect to the direction the drive shaft rotates. A first cam (24) is formed on the lug plate surrounding and guiding the spherical portion. A second cam (25) is formed on the lug plate. The second cam includes a cam surface that contacts and guides the roller.

IPC 8 full level
F04B 27/10 (2006.01); **F04B 27/08** (2006.01)

CPC (source: EP KR US)
F04B 27/0878 (2013.01 - KR); **F04B 27/0891** (2013.01 - KR); **F04B 27/0895** (2013.01 - KR); **F04B 27/1054** (2013.01 - KR);
F04B 27/1072 (2013.01 - EP KR US); **F04B 27/1081** (2013.01 - KR); **F05B 2210/12** (2013.01 - KR); **F05B 2210/14** (2013.01 - KR);
F05B 2250/192 (2013.01 - KR); **F05B 2260/40** (2013.01 - KR); **F05B 2260/506** (2013.01 - KR)

Citation (search report)
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• [XA] US 6276904 B1 20010821 - OTA MASAKI [JP], et al
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• [XD] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02 2 April 2002 (2002-04-02)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1531266 A2 20050518; **EP 1531266 A3 20060111**; **EP 1531266 B1 20070418**; CN 100373048 C 20080305; CN 1616824 A 20050518;
DE 602004005943 D1 20070531; DE 602004005943 T2 20080117; JP 2005163772 A 20050623; JP 4103806 B2 20080618;
KR 100614023 B1 20060822; KR 20050046569 A 20050518; US 2005147504 A1 20050707

DOCDB simple family (application)
EP 04026808 A 20041111; CN 200410102321 A 20041112; DE 602004005943 T 20041111; JP 2004014766 A 20040122;
KR 20040091816 A 20041111; US 98775804 A 20041111