

Title (en)
Variable displacement compressor

Title (de)
Kompressor mit veränderlicher Verdrängung

Title (fr)
Compresseur à déplacement variable

Publication
EP 1531266 A2 20050518 (EN)

Application
EP 04026808 A 20041111

Priority
• JP 2003386004 A 20031114
• JP 2004014766 A 20040122

Abstract (en)
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 1-7
F04B 27/10; **F04B 27/08**

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

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KR100614023B1

Designated contracting state (EPC)
DE FR IT

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

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EP 04026808 A 20041111; CN 200410102321 A 20041112; DE 602004005943 T 20041111; JP 2004014766 A 20040122;
KR 20040091816 A 20041111; US 98775804 A 20041111