

Title (en)

Control valve for variable displacement compressor

Title (de)

Regelventil für Verdichter mit veränderlicher Verdrängung

Title (fr)

Soupape de commande pour un compresseur à capacité variable

Publication

**EP 1413752 A1 20040428 (EN)**

Application

**EP 03023597 A 20031016**

Priority

- JP 2002308576 A 20021023
- JP 2003048392 A 20030226
- JP 2003289581 A 20030808

Abstract (en)

A control valve includes a plunger assembly of a solenoid of the control valve that is divided into first and second plungers (21, 32), and a pressure-sensing member between the plungers for sensing a suction pressure in a suction chamber of the compressor.

IPC 1-7

**F04B 27/18**

IPC 8 full level

**F04B 27/14** (2006.01); **F04B 27/18** (2006.01)

CPC (source: EP KR US)

**F04B 27/14** (2013.01 - KR); **F04B 27/1804** (2013.01 - EP US); **F04B 2027/1827** (2013.01 - EP US); **F04B 2027/1854** (2013.01 - EP US); **F04B 2027/1859** (2013.01 - EP US)

Citation (search report)

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- [A] US 5702235 A 19971230 - HIROTA HISATOSHI [JP], et al
- [A] US 6340293 B1 20020122 - BONA JOSEPH M [US], et al
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EP1650435A1; EP1561948A3; EP2082906A4; US7381031B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 1413752 A1 20040428**; **EP 1413752 B1 20051228**; DE 60302981 D1 20060202; DE 60302981 T2 20060706; JP 2004278511 A 20041007; KR 20040036578 A 20040430; US 2004086391 A1 20040506

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