

Title (en)

Control valve for a variable displacement compressor

Title (de)

Regelventil für einen Kompressor mit veränderlicher Verdrängung

Title (fr)

Soupape de contrôle pour compresseur à capacité variable

Publication

EP 1429026 A3 20050907 (EN)

Application

EP 03028111 A 20031205

Priority

JP 2002355593 A 20021206

Abstract (en)

[origin: EP1429026A2] A control valve includes a separation portion, which is part of a rod, blocks a through hole that connects a valve chamber and a second chamber with each other. Therefore, the pressure of the second chamber is not directly affected by changes in the opening degree of the control valve. The second chamber and a valve hole forming a part of the through hole are both connected to a second pressure zone through an upstream section of a supply passage. This prevents creation of pressure difference between the valve hole and the second chamber, and thus prevents entry of foreign particles in sliding portions between the through hole and the rod. <IMAGE>

IPC 1-7

F04B 27/18

IPC 8 full level

F04B 49/00 (2006.01); **F04B 27/14** (2006.01); **F04B 27/18** (2006.01)

CPC (source: EP US)

F04B 27/1804 (2013.01 - EP US); **F04B 2027/1831** (2013.01 - EP US)

Citation (search report)

- [X] EP 1186778 A2 20020313 - TOYOTA JIDOSHOKKI KK [JP]
- [X] EP 1207302 A2 20020522 - TOYOTA JIDOSHOKKI KK [JP]
- [X] EP 1179679 A2 20020213 - TOYOTA JIDOSHOKKI KK [JP]
- [A] EP 1081378 A2 20010307 - TOYODA AUTOMATIC LOOM WORKS [JP]

Cited by

EP1918584A3; EP1925821A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1429026 A2 20040616; **EP 1429026 A3 20050907**; JP 2004190495 A 20040708; US 2004165994 A1 20040826

DOCDB simple family (application)

EP 03028111 A 20031205; JP 2002355593 A 20021206; US 72834603 A 20031204