

Title (en)

Displacement control valve for variable displacement compressor

Title (de)

Verstellungsregelventil für einen verstellbaren Verdichter

Title (fr)

Soupape de contrôle de déplacement d'un compresseur de déplacement variable

Publication

EP 1890036 A3 20090415 (EN)

Application

EP 07114092 A 20070809

Priority

JP 2006217622 A 20060810

Abstract (en)

[origin: EP1890036A2] A displacement control valve for a variable displacement compressor has a control passage, a valve hole formed in the control passage, a first shaft portion having a valve body, and a connecting portion connected to the end portion of the valve body. The control passage is connected to a crank chamber for controlling the pressure in the crank chamber for adjusting the discharge displacement of the compressor. The valve body is formed at an end portion of the first shaft portion to open and close the valve hole. The connecting portion connected to the end portion of the valve body is disposed into the valve hole, and a circumferential surface of the connecting portion has a curved surface so as to be flared out at an end of the connecting portion.

IPC 8 full level

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

CPC (source: EP US)

F04B 27/1804 (2013.01 - EP US); **F04B 2027/1813** (2013.01 - EP US); **F04B 2027/1827** (2013.01 - EP US); **F04B 2027/185** (2013.01 - EP US); **F04B 2027/1854** (2013.01 - EP US); **F04B 2205/05** (2013.01 - EP US); **F04B 2205/08** (2013.01 - EP US)

Citation (search report)

- [X] EP 1520987 A1 20050406 - FUJIKOKI CORP [JP]
- [DA] US 5890876 A 19990406 - SUITOU KEN [JP], et al
- [A] US 2002141881 A1 20021003 - OKADA SATORU [JP], et al
- [A] EP 0372712 A1 19900613 - LUCAS IND PLC [GB]

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1890036 A2 20080220; **EP 1890036 A3 20090415**; JP 2008038856 A 20080221; US 2008247883 A1 20081009

DOCDB simple family (application)

EP 07114092 A 20070809; JP 2006217622 A 20060810; US 89151407 A 20070809