Title (en)
CONTROL VALVE FOR VARIABLE DISPLACEMENT COMPRESSOR

Title (de)
REGELVENTIL FÜR EINEN KOMPRESSOR MIT VERÄNDERLICHEM HUBRAUM

Title (fr)
SOUPAPE DE REGULATION POUR COMPRESSEUR A CYLINDREE VARIABLE

Publication
EP 1283361 B1 20070228 (EN)

Application
EP 01932108 A 20010517

Priority
• JP 0104107 W 20010517
• JP 2000148543 A 20000519

Abstract (en)
[origin: EP1283361A1] A control valve for a variable capacity compressor is provided, in which there is provided a valve element 15 driven by an action of a bellows device 22 arranged in a bellows receiving chamber 17 into which suction pressure Ps of the variable capacity compressor is introduced, generated load of an electromagnetic coil device 30 responds to generated load of the bellows device 22, setting pressure of the bellows device 22 is variably set in response to the generated load of the electromagnetic coil device 30, and pressure in a crankcase of the variable capacity compressor is controlled in response to opening of the valve element 15, thereby controlling capacity of the variable capacity compressor, the control valve being characterized in that a plunger chamber 53 of the electromagnetic coil device 30 communicates with the bellows receiving chamber 17 by an equalizing hole 49 and the suction pressure Ps is introduced into the plunger chamber 53. <IMAGE>

IPC 8 full level
F04B 27/14 (2006.01); **F04B 27/18** (2006.01); **F04B 49/00** (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP)
F04B 27/1804 (2013.01); F04B 2027/1813 (2013.01); F04B 2027/1827 (2013.01); F04B 2027/1859 (2013.01)

Cited by
EP1507109A1

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
EP 1283361 A1 20030212; **EP 1283361 A4 20030806**; **EP 1283361 B1 20070228**; DE 60126931 D1 20070412; DE 60126931 T2 20070628; JP 2001329951 A 20011130; JP 4395239 B2 20100106; WO 0188372 A1 20011122

DOCDB simple family (application)
EP 01932108 A 20010517; DE 60126931 T 20010517; JP 0104107 W 20010517; JP 2000148543 A 20000519