

Title (en)
Compressor having a suction throttle valve

Title (de)
Verdichter mit Einlassdrosselventil

Title (fr)
Compresseur doté d'un papillon d'aspiration des gaz

Publication
EP 1918587 A2 20080507 (EN)

Application
EP 07119299 A 20071025

Priority
JP 2006292237 A 20061027

Abstract (en)
A compressor has a compression chamber formed in a cylinder block, a suction passage formed upstream of the compression chamber and a suction throttle valve formed in the suction passage for adjusting opening of the suction passage. The suction throttle valve has a valve hole and a valve seat formed around the valve hole, a valve body for opening and closing the valve hole and an urging member for urging the valve body in the direction which causes the valve hole to be closed. The urging member is a disk spring. The spring characteristics of the disk spring includes a range where the increasing rate of the load required for displacement of the disk spring is reduced with an increase of displacement of the disk spring. The displacement range of the valve body includes a range where the increasing rate of the load of the disk spring is reduced with an increase of the displacement of the disk spring.

IPC 8 full level
F04B 49/22 (2006.01); **F04B 27/10** (2006.01)

CPC (source: EP KR US)
F04B 27/1036 (2013.01 - EP US); **F04B 39/00** (2013.01 - KR); **F04B 39/10** (2013.01 - KR); **F04B 49/225** (2013.01 - EP US)

Cited by
ITMI20130583A1; US10228173B2; WO2014167542A1

Designated contracting state (EPC)
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Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
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