

Title (en)  
COMPRESSOR

Title (de)  
VERDICHTER

Title (fr)  
COMPRESSEUR

Publication  
**EP 3415756 B1 20201007 (EN)**

Application  
**EP 16881690 A 20161222**

Priority  
• JP 2015255660 A 20151228  
• JP 2016088364 W 20161222

Abstract (en)  
[origin: EP3415756A1] The present invention provides a compressor including a valve mechanism that suppresses transmission of pressure pulsations at the time when a flow rate is low, and reduces a pressure difference between an inlet port and a suction chamber during a stop of the compressor so as to hasten startability of the compressor. A check valve forming body 30 includes: a valve housing 31 that includes an inflow port 38 and an outflow port 39, the inflow port 38 having a valve body housing space 32 therein and communicating with the inlet port, and the outflow port 39 communicating with the suction chamber; a valve body 41 that is housed in the valve body housing space 32 and varies a communication state between the inflow port 38 and the outflow port 39; and a spring 51 that urges the valve body 41 in a direction to block the communication between the inflow port 38 and the outflow port 39. The valve housing 31 is loosely fitted to an annular groove 26 formed in a cylinder head 4 in such a manner that axial movement thereof is allowed, blocks a working fluid that flows on the outside of the valve housing 31 in a state of abutting a peripheral edge portion of the annular groove 26 on the suction chamber side, and allows a flow of the working fluid on the outside of the valve housing 31 in a state of separating from the peripheral edge portion of the annular groove 26 on the suction chamber side.

IPC 8 full level  
**F04B 39/00** (2006.01); **F04B 39/08** (2006.01); **F04B 39/10** (2006.01); **F04B 49/22** (2006.01)

CPC (source: EP)  
**F04B 39/00** (2013.01); **F04B 39/0027** (2013.01); **F04B 39/08** (2013.01); **F04B 39/10** (2013.01); **F04B 49/25** (2013.01)

Cited by  
CN110748477A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3415756 A1 20181219; EP 3415756 A4 20191009; EP 3415756 B1 20201007;** JP 6857946 B2 20210414; JP WO2017115715 A1 20181018;  
WO 2017115715 A1 20170706

DOCDB simple family (application)  
**EP 16881690 A 20161222;** JP 2016088364 W 20161222; JP 2017559163 A 20161222