

Title (en)
COMPRESSOR

Title (de)
VERDICHTER

Title (fr)
COMPRESSEUR

Publication
EP 2489877 A1 20120822 (EN)

Application
EP 10823374 A 20101012

Priority
• JP 2009236498 A 20091013
• JP 2010067854 W 20101012

Abstract (en)
A compressor includes a front housing having a crank chamber therein, a cylinder block having a cylinder bore therein, a rear housing including a low-pressure chamber and a high-pressure chamber therein, a valve plate on which a suction hole for communicating the cylinder bore and the low-pressure chamber is formed, and a suction valve disk for opening and closing the suction hole. A predetermined gap width is provided between the suction valve disk and an opening edge of the suction hole, and the gap width is set to 13-15% of a thickness of the suction valve disk. By the compressor, fixation of the suction valve on the valve plate is prevented. Therefore, noise-and-vibration performance improves and thereby generation of undesired noises is prevented. Further, since the fixation of the suction valve on the valve plate is prevented, a desired volume of refrigerant is surely supplied into the cylinder bore.

IPC 8 full level
F04B 39/10 (2006.01); **F04B 27/08** (2006.01)

CPC (source: EP US)
F04B 27/1009 (2013.01 - EP US)

Citation (search report)
See references of WO 2011046106A1

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 2489877 A1 20120822; CN 102575663 A 20120711; JP 2011085029 A 20110428; US 2012195784 A1 20120802;
WO 2011046106 A1 20110421

DOCDB simple family (application)
EP 10823374 A 20101012; CN 201080045708 A 20101012; JP 2009236498 A 20091013; JP 2010067854 W 20101012;
US 201013501181 A 20101012