

Title (en)  
Vane-type compressor

Title (de)  
Drehschieber-Kompressor

Title (fr)  
Compresseur de type palette

Publication  
**EP 2565457 A2 20130306 (EN)**

Application  
**EP 12182075 A 20120828**

Priority  
JP 2011187100 A 20110830

Abstract (en)  
A vane-type compressor with a reduced coating amount of a solid lubricant used for forming a solid lubricant film on an outer peripheral surface of a rotor is provided. In a vane-type compressor (1) including at least: a cylinder 8a which is housed in a housing (2), and has a complete round inner peripheral surface; a complete round rotor (4) which is housed in the cylinder (8a) such that the center (P1) of the rotor (4) is arranged at a position offset from the center (P2) of the cylinder (8a); and a shaft (3) which is press-fitted into a through hole (4a) formed in the rotor (4), a solid lubricant film (30) is formed on an outer peripheral surface (4b) and a side surface (4c) of the rotor (4), and a thickness (L) of the solid lubricant film (30) is set to a value which falls within a range from 10  $\mu$ m to 20  $\mu$ m from an initial stage without applying finish working so that a coating amount of the solid lubricant can be relatively reduced.

IPC 8 full level  
**F04C 18/344** (2006.01); **F04C 29/02** (2006.01)

CPC (source: EP)  
**F04C 18/3441** (2013.01); **F04C 29/02** (2013.01); **F04C 2230/10** (2013.01); **F04C 2230/20** (2013.01); **F04C 2230/91** (2013.01); **F04C 2240/20** (2013.01); **F04C 2240/30** (2013.01); **F04C 2240/52** (2013.01); **F05C 2251/14** (2013.01)

Citation (applicant)  
JP 2004211651 A 20040729 - CALSONIC COMPRESSOR SEIZO KK

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2565457 A2 20130306**; **EP 2565457 A3 20170614**; BR 102012021909 A2 20131112; CN 102966543 A 20130313; CN 102966543 B 20160120; JP 2013050038 A 20130314

DOCDB simple family (application)  
**EP 12182075 A 20120828**; BR 102012021909 A 20120830; CN 201210312569 A 20120829; JP 2011187100 A 20110830