

Title (en)  
Vane-type compressor

Title (de)  
Drehschieber-Kompressor

Title (fr)  
Compresseur de type palette

Publication  
**EP 2565457 A3 20170614 (EN)**

Application  
**EP 12182075 A 20120828**

Priority  
JP 2011187100 A 20110830

Abstract (en)  
[origin: EP2565457A2] 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  $\mu\text{m}$  to 20  $\mu\text{m}$  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 (search report)

- [IY] US 5024591 A 19910618 - NAKAJIMA NOBUYUKI [JP]
- [Y] WO 2011080865 A1 20110707 - VALEO JAPAN CO LTD [JP], et al
- [Y] US 4538976 A 19850903 - SHIBUYA TSUNENORI [JP]
- [A] WO 2006047986 A1 20060511 - LUK FAHRZEUG HYDRAULIK [DE], et al
- [A] US 4666786 A 19870519 - YANO HIDEO [JP], et al

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

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