

Title (en)  
Swash plate compressor

Title (de)  
Taumelscheibenverdichter

Title (fr)  
Compresseur de type brise-flot

Publication  
**EP 2088318 A1 20090812 (EN)**

Application  
**EP 09151428 A 20090127**

Priority  

- JP 2008025757 A 20080205
- JP 2008038686 A 20080220
- JP 2008052548 A 20080303

Abstract (en)  
There is provided a swash plate compressor capable of realizing demonstration of an excellent sliding characteristic when a drive shaft is rotated at high speed, and demonstration of a high refrigerating capacity when the drive shaft is rotated at low speed. With the swash plate compressor of the invention, an oil guide groove 3b, an oil guide hole 3c, a first hole 37, an outflow hole 39, a valve hole 41, a communication port 49b, a receiving chamber 1c, a throttle hole 9a, and a second hole 55 constitute a release passage. The oil guide groove 3b, the oil guide hole 3c, the first hole 37, the outflow hole 39, the valve hole 41, the communication port 49b, the receiving chamber 1c, and the throttle hole 9a constitute a first passage. Also, the second hole 55 constitute a second passage. A valve mechanism 45 increases a ratio, at which the first passage occupies the release passage, as a drive shaft 7 is increased in rotating speed.

IPC 8 full level  
**F04B 27/10** (2006.01); **F04B 39/02** (2006.01); **F04B 53/18** (2006.01)

CPC (source: EP US)  
**F04B 27/1009** (2013.01 - EP US); **F04B 27/109** (2013.01 - EP US); **F04B 39/0223** (2013.01 - EP US); **F04B 53/18** (2013.01 - EP US); **F04B 2027/1831** (2013.01 - EP US)

Citation (applicant)  
JP H08284816 A 19961029 - TOYODA AUTOMATIC LOOM WORKS

Citation (search report)  

- [XA] EP 1614896 A1 20060111 - TOYOTA JIDOSHOKKI KK [JP]
- [XA] US 5836748 A 19981117 - KAWAGUCHI MASAHIRO [JP], et al
- [XA] US 4685866 A 19870811 - TAKENAKA KENJI [JP], et al
- [A] EP 1717445 A1 20061102 - TOYOTA JIDOSHOKKI KK [JP]
- [A] EP 1207301 A2 20020522 - TOYOTA JIDOSHOKKI KK [JP]

Cited by  
US2017122300A1; CN108361178A; US10309382B2; US9163620B2

Designated contracting state (EPC)  
DE FR IT

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2088318 A1 20090812**; US 2009220355 A1 20090903

DOCDB simple family (application)  
**EP 09151428 A 20090127**; US 36271309 A 20090130