

Title (en)
Swash plate type compressor

Title (de)
Taumelscheibenverdichter

Title (fr)
Compresseur de type brise-flot

Publication
EP 2098727 A3 20100414 (EN)

Application
EP 09154396 A 20090305

Priority
JP 2008056847 A 20080306

Abstract (en)
[origin: EP2098727A2] A swash plate type compressor has a housing assembly (1,3,5), a drive shaft (7), a swash plate (29), a piston (21), a motion converter (35), a bleed passage (39), and an oil separator (43). The housing assembly includes a cylinder bore (1A), a suction chamber (11), a discharge chamber (13), and a crank chamber (15). The drive shaft is rotatably supported by the housing assembly, and extends through the crank chamber. The bleed passage communicates between the crank chamber and the suction chamber. The oil separator is disposed in the housing assembly. The oil separator separates no or less amount of lubricating oil from the refrigerant gas in the increased rotational speed of the drive shaft than that in the decreased rotational speed of the drive shaft. The refrigerant gas passed through the oil separator is introduced into the suction chamber, and the separated lubricating oil is returned to the crank chamber.

IPC 8 full level
F04B 27/10 (2006.01)

CPC (source: EP KR US)
F04B 27/0878 (2013.01 - KR); **F04B 27/1018** (2013.01 - KR); **F04B 27/1045** (2013.01 - KR); **F04B 27/1081** (2013.01 - KR);
F04B 27/109 (2013.01 - EP KR US); **F04B 27/1804** (2013.01 - EP KR US); **F04B 2027/1827** (2013.01 - EP KR US);
F04B 2027/1831 (2013.01 - EP KR US); **F05B 2210/12** (2013.01 - KR); **F05B 2210/14** (2013.01 - KR)

Citation (search report)
• [XA] US 6558133 B2 20030506 - FUKANUMA TETSUHIKO [JP], et al
• [AD] JP H1054350 A 19980224 - TOYODA AUTOMATIC LOOM WORKS
• [A] EP 1314889 A2 20030528 - TOYOTA JIDOSHOKKI KK [JP]
• [A] EP 1614896 A1 20060111 - TOYOTA JIDOSHOKKI KK [JP]

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2098727 A2 20090909; **EP 2098727 A3 20100414**; CN 101526075 A 20090909; JP 2009209910 A 20090917; KR 20090096345 A 20090910;
US 2009223244 A1 20090910

DOCDB simple family (application)
EP 09154396 A 20090305; CN 200910126380 A 20090305; JP 2008056847 A 20080306; KR 20090018958 A 20090305;
US 38099309 A 20090305