

Title (en)
Tilting plate type compressor

Title (de)
Neigungsscheibenverdichter

Title (fr)
Compresseur de type plaque inclinée

Publication
EP 2067994 A3 20110511 (EN)

Application
EP 08021015 A 20081203

Priority
JP 2007315992 A 20071206

Abstract (en)
[origin: EP2067994A2] A tilting plate type compressor includes: cylinder bores; a crank chamber; a drive shaft rotatably supported by a bearing provided within a bearing cavity; a tilting plate provided within the crank chamber and capable of swingably rotating due to a rotation of the drive shaft; and pistons capable of reciprocating within the cylinder bores due to swingably rotating of the tilting plate; an extraction path communicating between the crank chamber and a suction chamber; and an intake path communicating between the crank chamber and a discharge chamber. The extraction path includes an intra-axis path provided within the drive shaft and opens into the bearing cavity. The intake path opens into the bearing cavity and communicates with the crank chamber via the bearing cavity. According to the compressor, it can be prevented much as possible that oil leaks from the crank chamber through the extraction path.

IPC 8 full level
F04B 27/10 (2006.01)

CPC (source: EP US)
F04B 27/1036 (2013.01 - EP US); **F04B 27/109** (2013.01 - EP US); **F04B 39/123** (2013.01 - EP US)

Citation (search report)
• [Y] EP 1347173 A2 20030924 - CALSONIC KANSEI CORP [JP]
• [Y] EP 1498606 A1 20050119 - SANDEN CORP [JP]
• [Y] JP 2007127084 A 20070524 - CALSONIC KANSEI CORP

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2067994 A2 20090610; **EP 2067994 A3 20110511**; **EP 2067994 B1 20120620**; CN 101451518 A 20090610; JP 2009138631 A 20090625; JP 5140402 B2 20130206; US 2009145293 A1 20090611

DOCDB simple family (application)
EP 08021015 A 20081203; CN 200810180130 A 20081127; JP 2007315992 A 20071206; US 32715408 A 20081203