

Title (en)
Variable displacement compressor

Title (de)
Verdichter mit variabler Verdrängung

Title (fr)
Compresseur à déplacement variable

Publication
EP 2107245 A1 20091007 (EN)

Application
EP 09156176 A 20090325

Priority
• JP 2008213131 A 20080821
• JP 2008092160 A 20080331

Abstract (en)
A variable displacement compressor includes a housing, a rotary shaft, a bearing, a seal member, a shaft seal chamber, a discharge refrigerant passage and a partition. The partition is provided in the shaft seal chamber for partitioning the shaft seal chamber into a first seal chamber to which the discharge refrigerant passage is opened and a second seal chamber part of the periphery of which is formed by the bearing and the seal member. The partition is provided with a first guide passage through which refrigerant containing lubricating oil flowed from the discharge refrigerant passage into the first seal chamber is substantially all supplied to the seal member of the second seal chamber.

IPC 8 full level
F04B 27/10 (2006.01)

CPC (source: EP US)
F04B 27/1036 (2013.01 - EP US); **F04B 27/1054** (2013.01 - EP US); **F04B 27/1072** (2013.01 - EP US); **F04B 27/1081** (2013.01 - EP US); **F04B 27/109** (2013.01 - EP US); **F04B 39/123** (2013.01 - EP US)

Citation (applicant)
• JP H04179874 A 19920626 - MATSUSHITA ELECTRIC IND CO LTD
• JP 2006307700 A 20061109 - TOYOTA IND CORP

Citation (search report)
• [X] US 7178450 B1 20070220 - BAKER JAMES ALLEN [US], et al
• [AD] EP 1717445 A1 20061102 - TOYOTA JIDOSHOKKI KK [JP]
• [A] US 4061443 A 19771206 - BLACK DENNIS A, et al

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)
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DOCDB simple family (application)
EP 09156176 A 20090325; JP 2008213131 A 20080821; US 41405809 A 20090330