

Title (en)
Scroll compressor

Title (de)
Spiralverdichter

Title (fr)
Compresseur à spirales

Publication
EP 2163766 A2 20100317 (EN)

Application
EP 09168270 A 20090820

Priority
JP 2008234160 A 20080912

Abstract (en)
A scroll compressor includes: an orbiting scroll (200) and a fixed scroll (100) which mesh with each other so as to compress a refrigerant; a discharge pressure space (5) into which the refrigerant is discharged from the compression chamber (4); an orbiting scroll end plate surface (202) on which the orbiting scroll comes into sliding contact with the fixed scroll; a fixed scroll end plate surface (102) on which the fixed scroll comes into sliding contact with the orbiting scroll; a groove-shaped pressurizing pocket space (601) which is provided in the orbiting scroll end plate surface or the fixed scroll end plate surface so as to be located on the outer peripheral side of the compression chamber; a pressure adjusting valve (600) which is provided in a passageway connecting the discharge pressure space with the pressurizing pocket space; and a pressurizing passageway (606) which is provided between the pressure adjusting valve and the pressurizing pocket space, wherein the refrigerant flows from the discharge pressure space to the pressurizing pocket space in the case where the differential pressure between the discharge pressure space and the pressurizing passageway is equal to a predetermined value.

IPC 8 full level
F04C 18/02 (2006.01); **F04C 27/00** (2006.01)

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 27/005** (2013.01); **F04C 23/008** (2013.01)

Citation (applicant)
JP 2005307989 A 20051104 - HITACHI LTD

Cited by
EP3112684A1; US10066625B2; US10738777B2; EP3464902A4

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 SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2163766 A2 20100317; **EP 2163766 A3 20150304**; **EP 2163766 B1 20180627**; CN 101672276 A 20100317; CN 101672276 B 20120822; JP 2010065635 A 20100325

DOCDB simple family (application)
EP 09168270 A 20090820; CN 200910165881 A 20090812; JP 2008234160 A 20080912