

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALE

Publication
EP 2589808 A1 20130508 (EN)

Application
EP 11803484 A 20110629

Priority
• JP 2010153750 A 20100706
• JP 2011064885 W 20110629

Abstract (en)
A scroll compressor configured in such a manner that a back pressure chamber is formed on the back surface side of the movable scroll using an annular seal means, and pressurized fluid is introduced into the back pressure chamber through a pressure introduction hole. A thrust bearing member which is a separate member from the seal means and which bears a thrust force acting toward the main bearing member from the bottom plate section side of the movable scroll is disposed between the back surface of the bottom plate section of the movable scroll and the front surface of the main bearing member which faces the back surface of the bottom plate section. The scroll compressor is configured in such a manner that the scroll compressor can satisfy the demand for more compactness and that a reduction in the durability and sealing function of the annular seal means can be minimized.

IPC 8 full level
F04C 18/02 (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP US)
F04C 18/0215 (2013.01 - EP US); **F04C 18/0253** (2013.01 - EP US); **F04C 27/005** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US); **F04C 2240/50** (2013.01 - EP US)

Citation (search report)
See references of WO 2012005150A1

Cited by
EP3467311A4; US11976655B2; DE102020109556B4; WO2017202385A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2589808 A1 20130508; CN 102985696 A 20130320; JP 2012017656 A 20120126; US 2013209305 A1 20130815; WO 2012005150 A1 20120112

DOCDB simple family (application)
EP 11803484 A 20110629; CN 201180032831 A 20110629; JP 2010153750 A 20100706; JP 2011064885 W 20110629; US 201113808823 A 20110629