

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALES

Publication
EP 2497954 A2 20120912 (EN)

Application
EP 12158522 A 20120308

Priority
JP 2011051846 A 20110309

Abstract (en)
A scroll compressor including a stationary scroll (41) having a spiral-shaped stationary spiral structure (47) that is vertically provided on one surface of a stationary end plate (45) secured at a stationary-side support position (F) positioned at an outer circumference; and an orbiting scroll (43) having an orbiting end plate (51) that is provided with a spiral-shaped orbiting spiral structure (53) vertically on one surface thereof to be meshed with the stationary end plate (45), and that is supported at a position closer to a center than the stationary-side support position (F) in a manner that allows a revolving motion; wherein, for at least one of a clearance between a tip portion of the stationary spiral structure (47) and the orbiting end plate (51) and a clearance between the orbiting spiral structure (53) and the stationary end plate (45), the clearance (S1) at a side further outward than the orbiting-side support position (C) is made larger than the clearance (S2) at the center side.

IPC 8 full level
F04C 18/02 (2006.01)

CPC (source: EP)
F04C 18/0276 (2013.01); **F04C 2230/602** (2013.01)

Citation (applicant)
• JP 2003155984 A 20030530 - MITSUBISHI HEAVY IND LTD
• JP H0587074 A 19930406 - MITSUBISHI HEAVY IND LTD

Cited by
CN104696217A; CN103925212A; US11725656B2; US9039396B2; WO2014134058A1; US9360011B2; US9611849B2; US10378539B2

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2497954 A2 20120912; EP 2497954 A3 20160511; EP 2497954 B1 20190925; JP 2012188964 A 20121004; JP 5787559 B2 20150930

DOCDB simple family (application)
EP 12158522 A 20120308; JP 2011051846 A 20110309