

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALE

Publication
EP 4102074 A1 20221214 (EN)

Application
EP 21751392 A 20210119

Priority
• JP 2020017533 A 20200205
• JP 2021001571 W 20210119

Abstract (en)
In scroll compressor (100), eccentric shaft (13a) is fit in orbiting bearing (13d) of orbiting scroll (12) to make orbiting scroll (12) rotate, and orbiting bearing (13d) or eccentric shaft (13a) has a tapered shape. This shortens the distance between a point at which orbiting scroll (12) receives a compression load and a point at which eccentric shaft (13a) presses orbiting bearing (13d) while rotating to reduce a turning moment that acts on orbiting scroll (12), and thereby the behavior of orbiting scroll is stabilized and a highly efficient and highly reliable scroll compressor can be provided.

IPC 8 full level
F04C 18/02 (2006.01)

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 29/0057** (2013.01); **F04C 23/008** (2013.01); **F04C 2230/603** (2013.01); **F04C 2240/56** (2013.01); **F04C 2240/601** (2013.01); **F04C 2240/605** (2013.01)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4102074 A1 20221214; **EP 4102074 A4 20230712**; CN 115053069 A 20220913; CN 115053069 B 20240813; JP WO2021157332 A1 20210812; WO 2021157332 A1 20210812

DOCDB simple family (application)
EP 21751392 A 20210119; CN 202180010824 A 20210119; JP 2021001571 W 20210119; JP 2021575692 A 20210119