

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALE

Publication
EP 4047208 A4 20221102 (EN)

Application
EP 19949344 A 20191015

Priority
JP 2019040440 W 20191015

Abstract (en)
[origin: EP4047208A1] A scroll compressor includes a stationary scroll including a stationary base plate and a stationary scroll body formed on the stationary base plate, and an orbiting scroll including an orbiting base plate and an orbiting scroll body formed on the orbiting base plate, the orbiting scroll being located with the orbiting base plate being opposite to the stationary base plate, the orbiting scroll body being combined with the stationary scroll body to form a compression chamber. The scroll compressor has a structure in which a base-plate to base-plate distance that is a distance between the stationary base plate and the orbiting base plate increases stepwise from outer circumferential portions of the stationary scroll body and the orbiting scroll body toward central portions thereof.

IPC 8 full level
F04C 18/02 (2006.01)

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 18/0253** (2013.01); **F04C 18/0276** (2013.01); **F04C 23/008** (2013.01); **F04C 2210/222** (2013.01)

Citation (search report)

- [XYI] US 2016003247 A1 20160107 - MATSUMURA SHOJI [JP], et al
- [X] JP H06101666 A 19940412 - HITACHI LTD
- [X] JP H01159482 A 19890622 - HITACHI LTD
- [Y] US 2019032659 A1 20190131 - NAKAI RYOUTA [JP], et al
- See references of WO 2021074947A1

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 4047208 A1 20220824; EP 4047208 A4 20221102; JP 7138807 B2 20220916; JP WO2021074947 A1 20210422; WO 2021074947 A1 20210422

DOCDB simple family (application)
EP 19949344 A 20191015; JP 2019040440 W 20191015; JP 2021552001 A 20191015