

Title (en)
ROTARY COMPRESSOR

Title (de)
ROTATIONSVERDICHTER

Title (fr)
COMPRESSEUR ROTATIF

Publication
EP 4130478 A4 20230830 (EN)

Application
EP 21781413 A 20210401

Priority
• JP 2021014156 W 20210401
• JP 2020065992 A 20200401

Abstract (en)
[origin: EP4130478A1] This rotary compressor is provided with: a shaft extending along the axial line; a disk-shaped rotor that is centered on the axial line and that is fixed to the shaft; a pair of stators that respectively face the rotor from both sides of the axial line and that have disk-shaped back yokes centered on the axial line, teeth protruding from the back yokes, and coils wound around the teeth; a pair of annular cylinders that are centered on the axial line and that respectively axially come into contact with the stators; rotary pistons that eccentrically rotate together with the shaft; a pair of end plates that form compression chambers for housing the rotary pistons together with the back yokes by axially sandwiching the cylinders together with the stators; and a pair of bearings provided to the end plates and/or the back yokes.

IPC 8 full level
F04C 23/02 (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP)
F01C 21/02 (2013.01); **F04C 18/3562** (2013.01); **F04C 23/008** (2013.01); **F04C 23/02** (2013.01); **F04C 29/0085** (2013.01); **F04C 2240/52** (2013.01); **F04C 2240/56** (2013.01)

Citation (search report)
• [Y] CN 104564685 A 20150429 - GUANGDONG MIDEA TOSHIBA COMPRESSOR CORP
• [A] EP 2894333 A1 20150715 - VALEO JAPAN CO LTD [JP]
• [A] US 8179016 B2 20120515 - ASANO YOSHINARI [JP]
• [Y] US 2006153705 A1 20060713 - HORTON W T [US], et al
• See references of WO 2021201223A1

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 4130478 A1 20230208; **EP 4130478 A4 20230830**; JP 2021161989 A 20211011; JP 7381386 B2 20231115; WO 2021201223 A1 20211007

DOCDB simple family (application)
EP 21781413 A 20210401; JP 2020065992 A 20200401; JP 2021014156 W 20210401