

Title (en)
SCREW COMPRESSOR

Title (de)
SCHRAUBENVERDICHTER

Title (fr)
COMPRESSEUR À VIS

Publication
EP 3933204 A4 20220309 (EN)

Application
EP 19918120 A 20190301

Priority
JP 2019008079 W 20190301

Abstract (en)
[origin: EP3933204A1] A screw compressor includes an internal-volume-ratio variable mechanism including a variable Vi valve configured to make a Vi value being an internal volume ratio variable. The screw compressor controls a position of the variable Vi valve in two stages. The position of the variable Vi valve when the Vi value is set to be large is set to attain a Vi value with which a compressor efficiency during operation under a predetermined high-load condition or a predetermined high-compression-ratio condition is equal to or higher than a set efficiency set in advance.

IPC 8 full level
F04C 18/52 (2006.01); **F04C 18/16** (2006.01); **F04C 28/12** (2006.01)

CPC (source: EP US)
F04C 18/16 (2013.01 - EP US); **F04C 18/52** (2013.01 - EP); **F04C 28/12** (2013.01 - EP US); **F04C 18/52** (2013.01 - US)

Citation (search report)

- [Y] JP 2013124600 A 20130624 - MITSUBISHI ELECTRIC CORP
- [Y] JP 2014206098 A 20141030 - MITSUBISHI ELECTRIC CORP
- See also references of WO 2020178895A1

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 3933204 A1 20220105; EP 3933204 A4 20220309; JP 7112031 B2 20220803; JP WO2020178895 A1 20210930; US 2022082099 A1 20220317; WO 2020178895 A1 20200910

DOCDB simple family (application)
EP 19918120 A 20190301; JP 2019008079 W 20190301; JP 2021503251 A 20190301; US 201917419356 A 20190301