

Title (en)
SCREW COMPRESSOR

Title (de)
SCHRAUBENVERDICHTER

Title (fr)
COMPRESSEUR À VIS

Publication
EP 3933204 A1 20220105 (EN)

Application
EP 19918120 A 20190301

Priority
JP 2019008079 W 20190301

Abstract (en)
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)

Designated contracting state (EPC)
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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