

Title (en)
SCREW COMPRESSOR AND REFRIGERATION CYCLE DEVICE

Title (de)
SCHRAUBENVERDICHTER UND KÜHLZYKLUSVORRICHTUNG

Title (fr)
COMPRESSEUR À VIS ET DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication
EP 3421800 A4 20190102 (EN)

Application
EP 16891410 A 20160223

Priority
JP 2016055145 W 20160223

Abstract (en)
[origin: EP3421800A1] A highly efficient screw compressor and a refrigeration cycle apparatus simplifying control of a discharge port valve are obtained. The screw compressor includes: a casing body having a hollow part; a screw rotor rotating around a rotation shaft in the hollow part of the casing body; a semi-cylindrical groove formed on an outer side in a radial direction of the hollow part of the casing body and extending in a direction of the rotation shaft of the screw rotor; and a discharge port valve contained in the semi-cylindrical groove, wherein an edge part of the discharge port valve, in which a discharge outlet facing an outer circumference of the screw rotor is opened, is formed into a stepped shape changing a flow path area of a discharge flow path in a stepwise manner.

IPC 8 full level
F04C 18/16 (2006.01); **F04C 18/52** (2006.01); **F04C 28/10** (2006.01)

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

Citation (search report)

- [XA] JP 2014029133 A 20140213 - MITSUBISHI ELECTRIC CORP
- See references of WO 2017145251A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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