

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)
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

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DOCDB simple family (publication)
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