

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 3425202 A4 20190109 (EN)**

Application  
**EP 16892504 A 20160301**

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Abstract (en)  
[origin: EP3425202A1] A screw compressor according to an embodiment of the present invention includes an electric motor an rotation speed of which can be changed, a screw rotor including a plurality of screw grooves on an outer circumferential surface, a screw shaft to transmit a driving force of the electric motor to the screw rotor and rotate the screw rotor, a first gate rotor and a second gate rotor respectively disposed on both sides of the screw rotor point-symmetrically with respect to the screw shaft and including, in outer circumferential portions, a plurality of teeth meshed with the screw grooves, a casing having a cylindrical shape to house the screw rotor inside a cylinder, a bypass device to cause a first compression chamber, which is a space surrounded by the first gate rotor, the screw groove, and the casing, and a low-pressure chamber having a suction pressure atmosphere to communicate, and an economizer port provided in the casing to cause fluid flowing from an outside to flow into the first compression chamber.

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Citation (search report)

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- [Y] WO 2014192898 A1 20141204 - MITSUBISHI ELECTRIC CORP [JP]
- [Y] EP 2410182 A1 20120125 - DAIKIN IND LTD [JP]
- See also references of WO 2017149659A1

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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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