

Title (en)

ROTARY COMPRESSOR AND REFRIGERATION CYCLE DEVICE

Title (de)

DREHKOMPRESSOR UND KÜHLKREISVORRICHTUNG DAMIT

Title (fr)

COMPRESSEUR ROTATIF ET DISPOSITIF DE CYCLE DE RÉFRIGÉRATION

Publication

EP 3184822 A4 20180404 (EN)

Application

EP 15834041 A 20150723

Priority

- JP 2014169557 A 20140822
- JP 2015003684 W 20150723

Abstract (en)

[origin: EP3184822A1] Provided are: a rotary compressor wherein it is possible to reduce discharge resistance and pulsation, improve performance, and reduce noise; and a refrigeration cycle device. A compression mechanism part (12) has a cylinder (15) and a pair of closing members (17, 18) for closing off both ends of the cylinder (15) and forming a cylinder chamber (16) in the cylinder (15). The closing members (17, 18) are provided with discharge ports (22, 26) for discharging a hydraulic fluid compressed in the cylinder chamber (16) and discharge valves (23, 27) for opening/closing the discharge ports (22, 26). One of the discharge ports (22), which is formed in one of the closing members (17), is formed so as to have a smaller opening area than that of the other discharge port (26), which is formed in the other closing member (18). One of the discharge valves (23), for opening/closing the discharge port (22) having the smaller opening area, is opened by a smaller differential pressure than that for the other discharge valve (27).

IPC 8 full level

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CPC (source: EP)

F04C 18/3564 (2013.01); **F04C 23/008** (2013.01); **F04C 29/068** (2013.01); **F04C 29/124** (2013.01); **F04C 2250/102** (2013.01)

Citation (search report)

- [XYI] US 4730996 A 19880315 - AKATSUCHI MASAHIRO [JP], et al
- [Y] JP S62218683 A 19870926 - TOSHIBA CORP
- [Y] WO 2013140912 A1 20130926 - TOSHIBA CARRIER CORP [JP]
- See references of WO 2016027413A1

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Designated contracting state (EPC)

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EP 3184822 A1 20170628; **EP 3184822 A4 20180404**; **EP 3184822 B1 20210331**; CN 106574620 A 20170419; CN 106574620 B 20181009; JP 2016044600 A 20160404; JP 6177741 B2 20170809; WO 2016027413 A1 20160225

DOCDB simple family (application)

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