

Title (en)

ROTARY COMPRESSOR, METHOD FOR MANUFACTURING ROTARY COMPRESSOR, AND REFRIGERATION CYCLE DEVICE

Title (de)

ROTATIONSVERDICHTER, VERFAHREN ZUR HERSTELLUNG EINES ROTATIONSVERDICHTERS UND KÄLTEKREISLAUFVORRICHTUNG

Title (fr)

COMPRESSEUR ROTATIF, PROCÉDÉ DE FABRICATION DE COMPRESSEUR ROTATIF, ET DISPOSITIF À CYCLE FRIGORIFIQUE

Publication

EP 3922854 A1 20211215 (EN)

Application

EP 19914314 A 20191018

Priority

- JP 2019020870 A 20190207
- JP 2019041020 W 20191018

Abstract (en)

A rotary compressor according to an embodiment includes a case, a rotary shaft, a compression mechanism, a balancer, and a balancer cover. A through-hole is formed in the balancer cover at a position of the balancer cover facing the rotary shaft in an axial direction. The rotary shaft has a thrust sliding portion, a protruding portion, and a supply channel. The thrust sliding portion comes into contact with a seal located around the through-hole of the balancer cover, in the axial direction of the rotary shaft. The protruding portion is located on an inner peripheral side with respect to the thrust sliding portion and protrudes downward from a lower end of the through-hole through the through-hole. The supply channel is open on a lower end surface of the protruding portion to guide a lubricating oil.

IPC 8 full level

F04C 29/02 (2006.01); **F04C 18/356** (2006.01); **F04C 23/02** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP)

F04C 18/356 (2013.01); **F04C 23/008** (2013.01); **F04C 29/023** (2013.01); **F04C 2230/60** (2013.01); **F04C 2240/603** (2013.01); **F04C 2240/807** (2013.01); **F04C 2240/809** (2013.01)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3922854 A1 20211215; **EP 3922854 A4 20221102**; CN 113396285 A 20210914; CN 113396285 B 20230217; JP 7113091 B2 20220804; JP WO2020161965 A1 20211014; WO 2020161965 A1 20200813

DOCDB simple family (application)

EP 19914314 A 20191018; CN 201980091316 A 20191018; JP 2019041020 W 20191018; JP 2020570364 A 20191018