

Title (en)

ROTARY COMPRESSOR AND REFRIGERATION CYCLE DEVICE

Title (de)

DREHKOMPRESSOR UND KÜHLKREISVORRICHTUNG

Title (fr)

COMPRESSEUR ROTATIF ET DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication

EP 3896285 A4 20220803 (EN)

Application

EP 18942836 A 20181212

Priority

JP 2018045713 W 20181212

Abstract (en)

[origin: EP3896285A1] In a rotary compressor of the embodiment, a thickness of a partition plate in an axial direction is smaller than a thickness of a first flange part in the axial direction and a thickness of a second flange part in the axial direction. An area of a portion in which an end surface of a first roller on a partition plate side can be exposed to a shaft hole is Sc1. An area of a portion in which an end surface of the first roller on the first flange part side can be exposed to an inner region of an outer circumference of a first groove part is Se1. At this time, $1 < Sc1/Se1 \leq 1.6$ is established. An area of a portion in which an end surface of a second roller on the partition plate side can be exposed to the shaft hole is Sc2. An area of a portion in which an end surface of the second roller on the second flange part side can be exposed to an inner region of an outer circumference of a second groove part is Se2. At this time, $1 < Sc2/Se2 \leq 1.6$ is established. A solid lubricating film is formed on a first surface of the first flange part and a second surface of the second flange part.

IPC 8 full level

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CPC (source: EP)

F04C 18/3564 (2013.01); **F04C 23/001** (2013.01); **F04C 29/02** (2013.01); **F04C 2210/261** (2013.01); **F04C 2240/10** (2013.01); **F05C 2251/14** (2013.01)

Citation (search report)

- [I] EP 2770212 A1 20140827 - PANASONIC CORP [JP]
- [I] US 2018238596 A1 20180823 - GOTOU SHINYA [JP]
- [A] US 2017248139 A1 20170831 - FURUYA SHIHO [JP], et al
- See references of WO 2020121443A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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