

Title (en)
REFRIGERANT COMPRESSOR AND FREEZER INCLUDING SAME

Title (de)
KÄLTEMITTELVERDICHTER UND KÜHLVORRICHTUNG DAMIT

Title (fr)
COMPRESSEUR RÉFRIGÉRANT ET DISPOSITIF DE RÉFRIGÉRATION COMPRENANT CE DERNIER

Publication
EP 3543529 B1 20210120 (EN)

Application
EP 17870945 A 20171116

Priority
• JP 2016224663 A 20161118
• JP 2017041307 W 20171116

Abstract (en)
[origin: EP3543529A1] A refrigerant compressor includes: an electric component (106); a compression component (107) driven by the electric component to compress a refrigerant; and a sealed container (101) accommodating the electric component and the compression component. The compression component includes: a shaft part (109, 110) rotated by the electric component; and a bearing part (114, 119) slidingly contacting the shaft part such that the shaft part is rotatable. A film (160) having hardness equal to or more than hardness of a sliding surface of the bearing part is provided on a sliding surface of the shaft part. Surface roughness of the sliding surface of the bearing part is smaller than surface roughness of the sliding surface of the shaft part.

IPC 8 full level
F04B 39/00 (2006.01)

CPC (source: EP US)
F04B 39/0094 (2013.01 - EP US); **F04B 39/0246** (2013.01 - US); **F04B 39/0292** (2013.01 - US); **F04B 2201/1207** (2013.01 - US); **F04B 2201/1209** (2013.01 - US); **F05C 2201/0436** (2013.01 - US); **F25B 31/004** (2013.01 - US)

Designated contracting state (EPC)
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EP 17870945 A 20171116; CN 201780071402 A 20171116; JP 2017041307 W 20171116; JP 2018551684 A 20171116; US 201716346755 A 20171116