

Title (en)
SEALED REFRIGERANT COMPRESSOR AND FREEZING/REFRIGERATION DEVICE USING SAME

Title (de)
DICHTER KÄLTEMITTELVERDICHTER UND DIESE VERWENDENDE GEFRIER-/KÜHLVORRICHTUNG

Title (fr)
COMPRESSEUR FRIGORIFIQUE HERMÉTIQUE ET DISPOSITIF DE CONGÉLATION/FRIGORIFIQUE LE METTANT EN OEUVRE

Publication
EP 4089282 A4 20240320 (EN)

Application
EP 20896484 A 20201202

Priority
• JP 2019218529 A 20191203
• JP 2020044763 W 20201202

Abstract (en)
[origin: EP4089282A1] In a hermetic refrigerant compressor, a thrust bearing (e.g., thrust ball bearing (210)) is provided on a thrust surface (136) of a main bearing (134). One end of a sliding surface of the main bearing (134), the one end being closer to a compression chamber (133) than an opposite end of the sliding surface, is a first end, and the opposite end of the sliding surface is a second end. A distance between a center axis of the compression chamber (133) and the second end of the sliding surface (sliding surface lower end (139)) of the main bearing (134) is a distance L, and a distance between the center axis of the compression chamber (133) and the first end of the sliding surface (sliding surface upper end (138)) of the main bearing (134) is a distance La. When the distance L is in a range of 38 mm to 51 mm, the distance La is less than or equal to 16 mm.

IPC 8 full level
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CPC (source: EP US)
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F04B 39/0246 (2013.01 - EP); **F04B 39/122** (2013.01 - EP); **F25B 1/02** (2013.01 - EP); **F25B 31/023** (2013.01 - EP); **F25B 31/026** (2013.01 - US)

Citation (search report)
• [I] US 2016201661 A1 20160714 - INAGAKI KO [JP], et al
• [A] WO 2009139138 A1 20091119 - PANASONIC CORP [JP], et al
• See also references of WO 2021112105A1

Designated contracting state (EPC)
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