

Title (en)

COMPRESSOR, REFRIGERATION CYCLE DEVICE, AND HEAT PUMP HOT-WATER SUPPLY DEVICE

Title (de)

VERDICHTER, KÄLTEKREISLAUFVORRICHTUNG UND HEISSWASSERZUFUHRVORRICHTUNG FÜR EINE WÄRMEPUMPE

Title (fr)

COMPRESSEUR, DISPOSITIF À CYCLE DE RÉFRIGÉRATION ET DISPOSITIF D'ALIMENTATION EN EAU CHAUDE À POMPE À CHALEUR

Publication

**EP 2930449 B1 20210106 (EN)**

Application

**EP 13859532 A 20130830**

Priority

- JP 2012081031 W 20121130
- JP 2013073336 W 20130830

Abstract (en)

[origin: EP2930449A1] The compressor includes: a first intake passage for guiding a refrigerant to a compressing element without releasing the refrigerant into a sealed container; a first discharge passage for discharging a high pressure refrigerant compressed by the compressing element to an outside of the sealed container; a second intake passage for guiding the high pressure refrigerant having passed through an external heat exchanger into the sealed container; a second discharge passage for discharging the high pressure refrigerant in the sealed container; and an oil return flow path for guiding refrigerator oil from the first discharge passage into the sealed container or the second intake passage. Due to pressure loss of the external heat exchanger, pressure in the sealed container and the second intake passage is lower than pressure in the first discharge passage. Owing to a difference between the pressures, the refrigerator oil moves in the oil return flow path.

IPC 8 full level

**F25B 43/02** (2006.01); **F24D 17/02** (2006.01); **F25B 1/00** (2006.01); **F25B 1/10** (2006.01); **F25B 30/02** (2006.01); **F25B 31/00** (2006.01); **F25B 40/00** (2006.01)

CPC (source: EP)

**F24D 17/02** (2013.01); **F25B 1/10** (2013.01); **F25B 30/02** (2013.01); **F25B 31/002** (2013.01); **F25B 40/00** (2013.01); **F25B 2339/047** (2013.01); **F25B 2400/072** (2013.01)

Citation (examination)

JP 2003013858 A 20030115 - MITSUBISHI HEAVY IND LTD

Cited by

CN110657488A; CN110657598A; US10495360B2

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

DOCDB simple family (publication)

**EP 2930449 A1 20151014**; **EP 2930449 A4 20160928**; **EP 2930449 B1 20210106**; WO 2014083674 A1 20140605; WO 2014083901 A1 20140605

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