

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 2927622 A4 20160824 (EN)

Application

EP 13858195 A 20130830

Priority

- JP 2012081030 W 20121130
- JP 2013073334 W 20130830

Abstract (en)

[origin: EP2927622A1] The compressor includes: a first intake passage for guiding refrigerant to a compressing element without releasing the refrigerant into the sealed container; a first discharge passage for discharging a compressed high pressure refrigerant and refrigerator oil from the compressing element directly to an outside of the sealed container without releasing the high pressure refrigerant into the sealed container and without separating the high pressure refrigerant and the refrigerator oil; a second intake passage for guiding the high pressure refrigerant and the refrigerator oil having passed through an external heat exchanger into the sealed container; non-rotational oil separation means included with the second intake passage, for separating the high pressure refrigerant and the refrigerator oil without rotating; and a second discharge passage for discharging the high pressure refrigerant in the sealed container to the outside of the sealed container without compressing the high pressure refrigerant.

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 (search report)

- [AD] JP 2006132427 A 20060525 - MITSUBISHI ELECTRIC CORP
- [A] US 5345785 A 19940913 - SEKIGAMI KAZUO [JP], et al
- [A] DE 102005001160 A1 20050901 - DENSO CORP [JP], et al
- See references of WO 2014083900A1

Cited by

CN107218711A; US10816250B2

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 2927622 A1 20151007; **EP 2927622 A4 20160824**; **EP 2927622 B1 20200819**; JP WO2014083900 A1 20170105; WO 2014083673 A1 20140605; WO 2014083900 A1 20140605

DOCDB simple family (application)

EP 13858195 A 20130830; JP 2012081030 W 20121130; JP 2013073334 W 20130830; JP 2014550052 A 20130830