

Title (en)

Oil separator for separating refrigerant and oil

Title (de)

Ölabscheider zum Trennen von Kühlmittel und Öl

Title (fr)

Séparateur d'huile pour séparer un réfrigérant et l'huile

Publication

EP 2169332 A3 20141203 (EN)

Application

EP 09012117 A 20090923

Priority

- JP 2008249605 A 20080929
- JP 2008249606 A 20080929

Abstract (en)

[origin: EP2169332A2] An oil separator (4) that separates oil contained in refrigerant discharged from a compressor (3) and has an oil separator main body (50) comprising a body portion (52) and upper and lower end plates (53, 54) secured to both the ends of the body portion (52), the oil separator main body being vertically installed in an erected state includes a refrigerant lead-in pipe (60) that is secured to the oil separator main body so as to extend along a tangential direction of the inner peripheral surface of the oil separator main body and opened at one end thereof so that the opened one end of the refrigerant lead-in pipe faces the inner peripheral surface of the oil separator main body, and a gas refrigerant lead-out pipe (70) that penetrates through the lower end plate (54) in the vertical direction of the oil separator main body and extends along an axial line of the oil separator main body while one end portion thereof is supported by the lower end plate (54), wherein a refrigerant gas lead-out opening portion (71, 72) for taking in gas refrigerant from which oil is separated in the oil separator main body is provided at at least one of a center area of the gas refrigerant lead-in pipe and the other end portion of the gas refrigerant lead-out pipe at the upper end plate (53) side.

IPC 8 full level

F25B 43/02 (2006.01)

CPC (source: EP)

F25B 43/02 (2013.01); **F25B 2400/02** (2013.01)

Citation (search report)

- [XY] JP S5038844 A 19750410
- [Y] JP 2001099526 A 20010413 - FUJITSU GENERAL LTD
- [Y] JP 2000179996 A 20000630 - DENSO CORP
- [Y] DE 1118814 B 19611207 - KARL SCHMIDT DR ING
- [X] JP 2007162988 A 20070628 - SANDEN CORP

Cited by

CN103649654A; CN107642489A; EP3254037A4; US9970695B2; US11747064B2; EP4112153A4; WO2013010583A1

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

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DOCDB simple family (publication)

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