Title (en)
  Oil separator

Title (de)
  Ölabscheider

Title (fr)
  Séparateur d'huile

Publication
  EP 2910875 A1 20150826 (EN)

Application
  EP 15153295 A 20150130

Priority
  JP 2014025469 A 20140213

Abstract (en)
  An oil separator separates refrigerating machine oil contained in a gas phase refrigerant by inertia force and centrifugal force. The oil separator includes a cylindrical pressure container, a refrigerant inlet pipe that leads the gas phase refrigerant containing the refrigerating machine oil into the pressure container, and a refrigerant outlet pipe that discharges the gas phase refrigerant from which the refrigerating machine oil is separated. An angle ± between a straight line along the direction of the opening of a delivery port at a tip of the refrigerant inlet pipe introduced into the pressure container and a plane perpendicular to the central axis of the pressure container satisfies $45° ≤ ± < 90°$.

IPC 8 full level
  F25B 43/02 (2006.01)

CPC (source: CN EP)
  F25B 43/02 (2013.01 - CN EP); F25B 2400/02 (2013.01 - CN EP); F25B 2500/01 (2013.01 - CN EP)

Citation (applicant)
  JP H11173706 A 19990702 - MITSUBISHI ELECTRIC CORP

Citation (search report)
  • [XYI] JP S6458970 A 19890306 - MITSUBISHI ELECTRIC CORP
  • [Y] JP 2011247575 A 20111208 - NICHIREI KOGYO KK, et al
  • [Y] JP H06235572 A 19940823 - HITACHI LTD
  • [X] JP 2000088369 A 20000331 - MITSUBISHI ELECTRIC CORP

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

Designated extension state (EPC)
  BA ME

DOCDB simple family (publication)
  EP 2910875 A1 20150826; **EP 2910875 B1 20240306**; CN 104848615 A 20150819; CN 104848615 B 20190514; JP 2015166668 A 20150924; JP 6403061 B2 20181010; KR 102183547 B1 20201126; KR 20150095550 A 20150821

DOCDB simple family (application)
  EP 15153295 A 20150130; CN 201510013195 A 20150112; JP 2014254262 A 20141216; KR 20140182248 A 20141217