

Title (en)

GAS LIQUID SEPARATOR AND REFRIGERATION CYCLE DEVICE

Title (de)

GAS-FLÜSSIGKEITS-ABSCHEIDER UND KÜHLZYKLUSVORRICHTUNG

Title (fr)

SÉPARATEUR GAZ-LIQUIDE ET DISPOSITIF À CYCLE DE RÉFRIGÉRATION

Publication

EP 2674699 A1 20131218 (EN)

Application

EP 12744185 A 20120202

Priority

- JP 2011024974 A 20110208
- JP 2012000704 W 20120202

Abstract (en)

A gas liquid separator (1A) includes: a sealed container (2) including an upper cover portion (21), a tubular portion (22), and a lower cover portion (23); and three pipes extending from the outside of the sealed container (2) to the inside thereof, that is, a first pipe (3A), a second pipe (3B), and a gas outlet pipe (4). A guide member (5) that forms an inflow space (11) between the guide member (5) and the upper cover portion (21) and forms a flow passage (15) for a two-layer flow F between the guide member (5) and the inner peripheral face of the tubular portion (22) is disposed in the sealed container (2). The first pipe (3A) and the second pipe (3B) are configured such that when one of the first pipe (3A) and the second pipe (3B) is used to introduce a gas-liquid two-phase fluid into the inflow space (11) from outside the sealed container (2), the other one is used to discharge a liquid in a liquid reservoir (13) from the sealed container (2) through a liquid outlet port (31 or 32) of the other one while forming a liquid surface at a level above the liquid outlet port (31 or 32).

IPC 8 full level

F25B 43/00 (2006.01)

CPC (source: EP)

F25B 43/006 (2013.01); **F25B 2400/23** (2013.01)

Cited by

ES2612306A1; EP3495754A4; EP3364130A4; WO2018076691A1; US10821811B2

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 2674699 A1 20131218; **EP 2674699 A4 20160720**; **EP 2674699 B1 20180718**; **EP 2674699 B8 20181017**; CN 103348203 A 20131009; CN 103348203 B 20151209; JP 5887518 B2 20160316; JP WO2012108149 A1 20140703; WO 2012108149 A1 20120816

DOCDB simple family (application)

EP 12744185 A 20120202; CN 201280007936 A 20120202; JP 2012000704 W 20120202; JP 2012556776 A 20120202