

Title (en)
RECEIVER TANK FOR REFRIGERATION CYCLE, HEAT EXCHANGER WITH THE RECEIVER TANK, AND CONDENSATION DEVICE FOR REFRIGERATION CYCLE

Title (de)
AUFNAHMEBEHÄLTER FÜR KÄLTEPROZESS, WÄRMETAUSCHER MIT AUFNAHMEBEHÄLTER UND KONDENSATIONSVORRICHTUNG FÜR KÄLTEPROZESS

Title (fr)
BAC RECEPTEUR POUR CYCLE DE REFRIGERATION, ECHANGEUR DE CHALEUR DOTE DUDIT BAC RECEPTEUR, ET DISPOSITIF DE CONDENSATION POUR CYCLE DE REFRIGERATION

Publication
EP 1586834 A4 20100616 (EN)

Application
EP 03814545 A 20031217

Priority
• JP 0316219 W 20031217
• JP 2002378979 A 20021227

Abstract (en)
[origin: EP1586834A1] A receiver tank according to the present invention has a tubular tank body 30 with a refrigerant inlet hole 3a and a refrigerant outlet hole 3b that are formed in its lower wall 321. The upper end position of the opening of the refrigerant inlet hole 3a is set to be lower than the upper end position of the opening of the refrigerant hole 3b. Provided at the upper end of the opening of the refrigerant inlet hole 3a is a resistance layer 335 at which the speed of flow of a refrigerant is reduced by permeation of the refrigerant. The refrigerant flowing in from the refrigerant inlet hole 3a penetrates upward the resistance layer 335 to form a collection R of liquid in a space of the tank. A liquid refrigerant in the collection R is discharged through the refrigerant outlet hole 3b. Because of the structure above, reduction in refrigerant amount, simplification in structure, and reduction in cost can be attained. <IMAGE>

IPC 1-7
F25B 39/04; **F25B 43/00**; **F25B 41/00**

IPC 8 full level
B60H 1/32 (2006.01); **F25B 39/04** (2006.01); **F25B 43/00** (2006.01); **F28F 9/04** (2006.01); **F25B 41/00** (2006.01)

CPC (source: EP KR)
F25B 39/00 (2013.01 - KR); **F25B 39/04** (2013.01 - EP KR); **F25B 43/00** (2013.01 - KR); **F28F 9/0246** (2013.01 - EP); **F28F 9/0253** (2013.01 - EP); **F28F 9/0256** (2013.01 - EP); **F25B 41/00** (2013.01 - EP); **F25B 2339/0441** (2013.01 - EP); **F25B 2339/0446** (2013.01 - EP); **F25B 2500/17** (2013.01 - EP); **F25B 2500/32** (2013.01 - EP)

Citation (search report)
No further relevant documents disclosed

Cited by
DE102013218529A1; US2013220583A1; US9599414B2; WO2015074823A1; US10821811B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1586834 A1 20051019; **EP 1586834 A4 20100616**; **EP 1586834 B1 20120328**; AT E551577 T1 20120415; AU 2003301504 A1 20040729; BR 0317793 A 20051122; BR 0317793 B1 20141223; CN 100476321 C 20090408; CN 1732364 A 20060208; JP 2004211921 A 20040729; JP 4091416 B2 20080528; KR 20050088139 A 20050901; WO 2004061377 A1 20040722; ZA 200505559 B 20060628

DOCDB simple family (application)
EP 03814545 A 20031217; AT 03814545 T 20031217; AU 2003301504 A 20031217; BR 0317793 A 20031217; CN 200380107672 A 20031217; JP 0316219 W 20031217; JP 2002378979 A 20021227; KR 20057011929 A 20050624; ZA 200505559 A 20050711