

Title (en)  
ACCUMULATOR

Title (de)  
AKKUMULATOR

Title (fr)  
BOUTEILLE TAMPON

Publication  
**EP 1967800 A1 20080910 (EN)**

Application  
**EP 06843046 A 20061222**

Priority  
• JP 2006325587 W 20061222  
• JP 2005375963 A 20051227

Abstract (en)  
In an accumulator for use in a refrigerating cycle of a vehicle air conditioner or the like, to prevent a refrigerant liquid sucked inside returning to a compressor. A desiccant layer 12 is provided above the middle of a tank 11 to divide the main body into upper and lower chambers 13 and 14. A gas-liquid mixed refrigerant sucked into the lower chamber is subjected to gas-liquid separation in the desiccant layer 12, and only the refrigerant gas is transferred to the upper chamber 13 while the refrigerant liquid and the like are accumulated in the lower chamber 14. An outlet port 16b of the refrigerant suction tube 16, through which the refrigerant is sucked into the main body, is opened within the lower chamber 14, and an inlet port 17a of a refrigerant/oil discharge tube 17, through which refrigerant gas obtained by the gas-liquid separation in the desiccant layer 12 is discharged, is opened within the upper chamber 13. The desiccant layer 12 separates the outlet port 16b of the refrigerant suction tube 16 from the inlet port 17a of the refrigerant/oil discharge tube 17, so that the refrigerant liquid sucked through the refrigerant suction tube 16 is not directly sucked into the inlet port 17a of the refrigerant/oil tube 17.

IPC 8 full level  
**F25B 43/00** (2006.01); **F25B 43/02** (2006.01)

CPC (source: EP US)  
**F25B 43/006** (2013.01 - EP US); **F25B 43/003** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US)

Citation (search report)  
See references of WO 2007074725A1

Cited by  
KR20130075358A; CZ308314B6; CN111974336A; EP3255361A1; EP2216612A1; FR2941890A1; CN101799231A; US8567212B2

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