

Title (en)
ACCUMULATOR

Title (de)
AKKUMULATOR

Title (fr)
BOUTEILLE TAMPON

Publication
EP 3929505 A4 20221026 (EN)

Application
EP 20759184 A 20200108

Priority
• JP 2019029005 A 20190221
• JP 2020000283 W 20200108

Abstract (en)
[origin: EP3929505A1] Provided is an accumulator with a simple and inexpensive structure capable of increasing an oil return amount and improving the operation efficiency of a system even when a tank of the accumulator has a large liquid portion including a liquid-phase refrigerant and oil accumulated therein and the liquid portion is in a two-layer separate state (i.e., an oil layer on the upper side and a liquid-phase refrigerant layer on the lower side) with use of the oil that is not compatible with the refrigerant and has a lower specific gravity than the refrigerant, thus forming the oil layer in the upper position inside of the tank of the accumulator, for example. A floating member 20 is disposed on the outer periphery of an outlet pipe 30 so as to be slidable in a vertical direction. The floating member 20 is adapted to move up or down according to change in an oil surface level with buoyancy received from the oil included in the refrigerant, and is provided with an oil return hole 25 in a portion to be immersed in the oil. The outlet pipe 30 is provided with a slit hole 39 extending in the vertical direction. The slit hole 39 is adapted to be continuous with the oil return hole 25 when the oil surface level exceeds a predetermined level.

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

CPC (source: EP)
F25B 43/006 (2013.01); **F25B 43/02** (2013.01); **F25B 2345/002** (2013.01); **F25B 2400/23** (2013.01); **F25B 2700/04** (2013.01)

Citation (search report)
• [A] KR 20060065026 A 20060614 - DAEWOO ELECTRONICS CORP [KR]
• [A] JP H10205931 A 19980804 - MATSUSHITA REFRIGERATION
• See references of WO 2020170627A1

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

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