

Title (en)

EXPANSION VALVE AND COOLING CYCLE DEVICE USING SAME

Title (de)

EXPANSIONVENTIL UND KÜHLKREISLAUFVORRICHTUNG DAMIT

Title (fr)

SOUAPE DE DÉTENTE ET DISPOSITIF DE CYCLE DE REFROIDISSEMENT UTILISANT CELLE-CI

Publication

EP 2980510 B1 20210120 (EN)

Application

EP 13880458 A 20131112

Priority

- JP 2013058755 W 20130326
- JP 2013080569 W 20131112

Abstract (en)

[origin: EP2980510A1] An expansion valve includes a main body unit in which a valve chamber and a refrigerant dividing chamber are separated by a separation wall, an expansion section is opened to the separation wall so that the valve chamber and the refrigerant dividing chamber communicate with each other, and a plurality of branch ports that communicate with the refrigerant dividing chamber are provided; a valve body configured to adjust an opening of the expansion section; and a partition section in a plate shape that is disposed in the refrigerant dividing chamber so as to separate the refrigerant dividing chamber for the plurality of branch ports, wherein at least part of an upper edge of the partition section is positioned in an opening of the expansion section in vertical view to the separation wall.

IPC 8 full level

F25B 39/02 (2006.01); **F25B 41/00** (2021.01)

CPC (source: EP US)

F25B 13/00 (2013.01 - EP US); **F25B 39/028** (2013.01 - EP); **F25B 41/31** (2021.01 - EP US); **F25B 41/385** (2021.01 - EP US);
F25B 41/39 (2021.01 - EP US); **F25B 41/45** (2021.01 - EP US); **F25B 2313/005** (2013.01 - EP); **F25B 2313/006** (2013.01 - EP);
F25B 2313/0233 (2013.01 - EP); **F25B 2313/02741** (2013.01 - EP); **F25B 2500/12** (2013.01 - EP)

Cited by

US10883745B2; US11906217B2

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 2980510 A1 20160203; EP 2980510 A4 20161130; EP 2980510 B1 20210120; WO 2014155518 A1 20141002; WO 2014155816 A1 20141002

DOCDB simple family (application)

EP 13880458 A 20131112; JP 2013058755 W 20130326; JP 2013080569 W 20131112