

Title (en)

MULTI-LINE APPARATUS SYSTEM REFRIGERANT FLOW CONTROL METHOD AND DEVICE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG DES KÄLTEMITTELFLOSSES EINES EINRICHTUNGSSYSTEMS MIT MEHREREN LEITUNGEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE CONTRÔLE DE DÉBIT DE FRIGORIGÈNE DE SYSTÈME D'APPAREIL MULTI-LIGNE

Publication

**EP 3182039 A4 20180502 (EN)**

Application

**EP 16820687 A 20160426**

Priority

- CN 201510395506 A 20150706
- CN 2016080246 W 20160426

Abstract (en)

[origin: EP3182039A1] A method and a device for controlling refrigerant distribution of a multi-split air-conditioning system are disclosed in the present invention. The method includes: when the multi-split air-conditioning system enters a main heating mode, controlling the second electronic expansion valve to close; controlling an electronic expansion valve corresponding to a cooling indoor unit to perform an opening adjustment; when an opening of the electronic expansion valve corresponding to the cooling indoor unit reaches a maximum opening, calculating a target opening of the second electronic expansion valve according to a total opening and the maximum opening of the electronic expansion valve corresponding to the cooling indoor unit; and controlling the second electronic expansion valve according to the target opening. With the method for controlling refrigerant distribution of the multi-split air-conditioning system in embodiments of the present disclosure, the cooling effect of the cooling indoor unit is ensured and the liquid strike on the compressor may be avoided under the main heating mode, and the compressor is ensured to operate safely and reliably.

IPC 8 full level

**F25B 13/00** (2006.01); **F25B 41/34** (2021.01)

CPC (source: EP US)

**F25B 13/00** (2013.01 - EP US); **F25B 30/02** (2013.01 - US); **F25B 41/39** (2021.01 - EP US); **F25B 49/02** (2013.01 - EP US); **F25B 2313/0231** (2013.01 - EP US); **F25B 2313/0233** (2013.01 - EP US); **F25B 2400/23** (2013.01 - EP US); **F25B 2600/2509** (2013.01 - EP US); **F25B 2600/2513** (2013.01 - EP US)

Citation (search report)

- [A] US 2015168037 A1 20150618 - ARIYAMA TADASHI [JP], et al
- [A] EP 2833086 A1 20150204 - MITSUBISHI ELECTRIC CORP [JP]
- See references of WO 2017005036A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3182039 A1 20170621**; **EP 3182039 A4 20180502**; **EP 3182039 B1 20200930**; CN 105115199 A 20151202; CN 105115199 B 20171031; US 2017198956 A1 20170713; WO 2017005036 A1 20170112

DOCDB simple family (application)

**EP 16820687 A 20160426**; CN 201510395506 A 20150706; CN 2016080246 W 20160426; US 201615326184 A 20160426