

Title (en)  
MULTI-SPLIT AIR CONDITIONING SYSTEM AND SWITCHING CONTROL METHOD FOR OPERATING MODE OF INDOOR UNITS THEREOF

Title (de)  
MULTI-SPLIT-KLIMATISIERUNGSSYSTEM UND UMSCHALTSTEUERUNGSVERFAHREN FÜR BETRIEBSMODUS VON INNENRAUMEINHEITEN DAFÜR

Title (fr)  
SYSTÈME DE CLIMATISATION À DIVISIONS MULTIPLES ET PROCÉDÉ DE COMMANDE DE COMMUTATION POUR MODE DE FONCTIONNEMENT D'UNITÉS INTÉRIEURES ASSOCIÉES

Publication  
**EP 3517848 A4 20191009 (EN)**

Application  
**EP 16916102 A 20161104**

Priority  
• CN 201610832075 A 20160919  
• CN 2016104675 W 20161104

Abstract (en)  
[origin: EP3517848A1] A multi-split air conditioning system and a switching control method for an operating mode of indoor units thereof. The method comprises the following steps: when any indoor unit (21, 22, 23, 24) in multiple indoor units (21, 22, 23, 24) receives a mode switching instruction, the indoor unit (21, 22, 23, 24) sends the mode switching instruction to a shunt device (30) (S1); the shunt device (30) performs switching control on a heating control valve or a refrigeration control valve corresponding to the indoor unit (21, 22, 23, 24) according to the received mode switching instruction, releases pressure by controlling a second throttling assembly (34), a first control valve, and a bypass valve in order to reduce a differential pressure across the refrigeration control valve or the heating control valve corresponding to the indoor unit (21, 22, 23, 24), obtains a switching flag bit of a four-way valve, and controls the refrigeration control valve or the heating control valve corresponding to the indoor unit (21, 22, 23, 24) and the four-way valve according to the switching flag bit of the four-way valve (S2).

IPC 8 full level  
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Citation (search report)  
• [A] US 5237833 A 19930824 - HAYASHIDA NORIAKI [JP], et al  
• [A] CN 104748239 A 20150701 - GUANDONG MIDEA HVAC EQUIPMENT, et al  
• [A] EP 2905552 A1 20150812 - MITSUBISHI ELECTRIC CORP [JP]  
• See references of WO 2018049722A1

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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)  
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**EP 16916102 A 20161104**; CA 3037194 A 20161104; CN 2016104675 W 20161104; CN 201610832075 A 20160919; US 201916357104 A 20190318