

Title (en)

CONTROL CIRCUIT, AIR CONDITIONER, AND CONTROL METHOD

Title (de)

STEUERSCHALTUNG, KLIMAAANLAGE UND STEUERVERFAHREN

Title (fr)

CIRCUIT DE COMMANDE, DISPOSITIF DE CONDITIONNEMENT D'AIR ET PROCÉDÉ DE COMMANDE

Publication

**EP 3992551 A4 20220824 (EN)**

Application

**EP 20896008 A 20200228**

Priority

- CN 201911211248 A 20191202
- CN 2020077212 W 20200228

Abstract (en)

[origin: EP3992551A1] Provided are a control circuit, air conditioner, and control method, the control circuit comprising: a drive module (102); a drive circuit (104), the drive circuit (104) being connected to the drive module (102); a first switch module (106), the first switch module (106) being arranged on the drive circuit (104); a pressure detection module (108), the pressure detection module (108) being connected to the first switch module (106) and used for controlling the first switch module (106) to turn on or off, and thus controlling the drive circuit (104) to turn on or off. There is no need to arrange an additional pressure relief valve to prevent overpressure, the tightness of a pressure vessel is improved, and the leakage of cold medium is reduced; the control circuit is simpler, the response is quicker, the probability of control failure due to component damage is reduced, and the reliability of the control circuit is improved.

IPC 8 full level

**F04B 49/06** (2006.01); **F04B 49/08** (2006.01); **F04B 49/10** (2006.01); **F25B 49/00** (2006.01); **F25B 49/02** (2006.01); **F04B 35/04** (2006.01)

CPC (source: CN EP)

**F04B 49/022** (2013.01 - CN); **F04B 49/06** (2013.01 - CN EP); **F04B 49/08** (2013.01 - EP); **F04B 49/10** (2013.01 - EP);  
**F25B 49/005** (2013.01 - EP); **F25B 49/022** (2013.01 - CN EP); **F04B 35/04** (2013.01 - EP); **F04B 2205/05** (2013.01 - EP);  
**F25B 2400/077** (2013.01 - CN); **F25B 2500/07** (2013.01 - EP); **F25B 2600/0251** (2013.01 - EP); **F25B 2600/027** (2013.01 - CN)

Citation (search report)

- [X] EP 3450882 A1 20190306 - LG ELECTRONICS INC [KR]
- [X] KR 102036115 B1 20191024
- [X] US 2018283724 A1 20181004 - VAN ELDIK HENDRIKUS C [NL], et al
- See references of WO 2021109343A1

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 3992551 A1 20220504**; **EP 3992551 A4 20220824**; CN 110848125 A 20200228; CN 110848125 B 20210427; WO 2021109343 A1 20210610

DOCDB simple family (application)

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