Title (en)

DEFROSTING SYSTEM, DEFROSTING METHOD AND AIR CONDITIONER

Title (de)

ENTEISUNGSSYSTEM, ABTAUVERFAHREN UND KLIMAANLAGE

Title (fr)

SYSTÈME DE DÉGIVRAGE, PROCÉDÉ DE DÉGIVRAGE ET DISPOSITIF DE CONDITIONNEMENT D'AIR

Publication

EP 3882531 A1 20210922 (EN)

Application

EP 19884404 A 20190718

Priority

- CN 201811367922 A 20181116
- CN 2019096541 W 20190718

Abstract (en)

Disclosed is a defrosting system, belonging to the technical field of air conditioner defrosting. The defrosting system comprises: an auxiliary water path (2) and a controller (3). The auxiliary water path (2) is arranged on a condenser (4) side. The controller (3) comprises: a first unit (301), which is used for acquiring an ambient temperature; a second unit (302), which is used for acquiring a coil temperature of the auxiliary water path (2); and a third unit (303), which is used for controlling the auxiliary water path (2) to be connected to high-temperature water in a main water path (1) according to the ambient temperature and the coil temperature of the auxiliary water path (2). According to the embodiments, where a heat pump unit does not shut down, the high-temperature water in the main water path (1) can be introduced into the auxiliary water path (2) on the condenser (4) side so as to complete the condenser (4) defrosting operation, thereby ensuring the continuous operation of the heat pump unit and avoiding frequent starting and stopping during defrosting. A defrosting method and an air conditioner are further involved.

IPC 8 full level

F24F 11/41 (2018.01); **F24F 11/64** (2018.01)

CPC (source: CN EP)

F24F 11/41 (2017.12 - CN EP); **F24F 11/64** (2017.12 - CN EP); **F24F 11/84** (2017.12 - EP); F24F 2110/10 (2017.12 - EP); F24F 2140/20 (2017.12 - EP)

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 3882531 A1 20210922; **EP 3882531 A4 20220406**; CN 109489180 A 20190319; WO 2020098302 A1 20200522

DOCDB simple family (application)

EP 19884404 A 20190718; CN 201811367922 A 20181116; CN 2019096541 W 20190718