

Title (en)

SYSTEM FOR DEHUMIDIFYING A GREENHOUSE USED FOR GROWING PLANTS

Title (de)

SYSTEM ZUR ENTFEUCHTUNG EINES GEWÄCHSHAUSES FÜR DIE PFLANZENZUCHT

Title (fr)

SYSTÈME DE DÉSHUMIDIFICATION DE SERRE DE CULTURE

Publication

EP 4213616 A1 20230726 (FR)

Application

EP 21782661 A 20210920

Priority

- FR 2009565 A 20200921
- EP 2021075744 W 20210920

Abstract (en)

[origin: WO2022058575A1] The invention relates to a system (100) for dehumidifying the air in a greenhouse used for growing plants, comprising at least one dehumidification device (1021-1023) comprising a dehumidification unit comprising: - at least a first exchanger, referred to as the cold bank (1041-1043), for cooling a flow of air coming from said greenhouse, through exchange of heat with a first heat-transfer fluid, referred to as the cold fluid, which is colder than the air passing through said cold bank (1041-1043); and - at least a second exchanger, referred to as the hot bank (1061-1063), downstream of said cold bank (1041-1043), for warming a flow of air coming from said cold bank, through exchange of heat with a second heat-transfer fluid, referred to as the hot fluid, which is hotter than the air passing through said hot bank (1061-1063); characterized in that it further comprises a single unit (108) for producing hot and cold and which feeds: - the at least one cold bank (1041-1043) with cold fluid via a circuit, referred to as the cold circuit (110), and - the at least one hot bank (1061-1063) with hot fluid, via a circuit, referred to as the hot circuit (112); and in that said single unit (108) for producing hot and cold comprises a heat-transfer stage for the transfer of heat between the cold fluid and the hot fluid.

IPC 8 full level

A01G 9/24 (2006.01)

CPC (source: EP)

A01G 9/246 (2013.01); **Y02A 40/25** (2017.12)

Citation (search report)

See references of WO 2022058575A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022058575 A1 20220324; EP 4213616 A1 20230726; FR 3114220 A1 20220325; FR 3114220 B1 20230428

DOCDB simple family (application)

EP 2021075744 W 20210920; EP 21782661 A 20210920; FR 2009565 A 20200921