

Title (en)
AIR CONDITIONING SYSTEM AND METHOD FOR ITS CONTROL

Title (de)
KLIMAANLAGE UND VERFAHREN ZU DEREN STEUERUNG

Title (fr)
SYSTÈME DE CLIMATISATION ET SON PROCÉDÉ DE COMMANDE

Publication
EP 3961127 A1 20220302 (EN)

Application
EP 20193681 A 20200831

Priority
EP 20193681 A 20200831

Abstract (en)
An air conditioning system and a method for its control is provided. The air conditioning system comprises a heating and/or cooling part and a heat transfer circuit, wherein a first heat exchanger thermally connects the heating and/or cooling part with the heat transfer circuit. The heat transfer circuit comprises a pump configured to circulate a heat transfer medium in the heat transfer circuit, a second heat exchanger configured to transfer heat between the heat transfer medium of the heat transfer circuit and an indoor space, and a bypass line bypassing the second heat exchanger, wherein the bypass line comprises a bypass valve between a first and a second end of the bypass line, wherein the bypass valve is configured to control a flow through the bypass line and wherein the heat transfer circuit comprises a heat transfer medium containing a phase change material. A controller of the system is configured to control an opening degree of the bypass valve. The presented air conditioning system has an increased coefficient of performance.

IPC 8 full level
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CPC (source: EP)
F25B 25/005 (2013.01); **F25B 49/02** (2013.01); **F25B 2600/2501** (2013.01)

Citation (applicant)
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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

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