

Title (en)

THE PRESENT INVENTION RELATES TO A DISTRICT HEATING SYSTEM AND METHODS FOR FLOW CONTROL AND RETROFITTING OF A FLOW REGULATION SYSTEM IN A DISTRICT HEATING SYSTEM

Title (de)

DIE VORLIEGENDE ERFINDUNG BETRIFFT EIN FERNWÄRMESYSTEM UND VERFAHREN ZUR STRÖMUNGSSTEUERUNG UND NACHRÜSTUNG EINES STRÖMUNGSREGELUNGSSYSTEMS IN EINEM FERNWÄRMESYSTEM

Title (fr)

SYSTÈME DE CHAUFFAGE URBAIN ET PROCÉDÉS DE RÉGULATION DE DÉBIT ET DE MODERNISATION D'UN SYSTÈME DE RÉGULATION DE DÉBIT DANS UN SYSTÈME DE CHAUFFAGE URBAIN

Publication

**EP 3870905 A1 20210901 (EN)**

Application

**EP 19812912 A 20191023**

Priority

- DK PA201870692 A 20181023
- DK 2019050320 W 20191023

Abstract (en)

[origin: WO2020083453A1] District heating system, comprising a bypass situated between the inlet line and the return line from the heat exchanger and a flow valve situated in the bypass, wherein the flow valve is a flow control valve, which forms part of a flow regulation system of the district heating system, and wherein the flow regulation system comprises a first temperature sensor situated for measuring a temperature in the bypass, an electronic controller unit and a battery connected with the controller unit to power the operation of the controller unit, wherein the controller unit comprises means for wireless communication with a communication unit, wherefrom the controller unit can receive data and thereby be remote-controlled from the communication unit and can transmit data for remote logging to the communication unit, and wherein the controller unit is adapted as a slave unit, which is programmable for periodically after a first programmed time interval to prompt a command from the communication unit, which correspondingly can be adapted as a master unit, and for periodically after a second programmed time interval to transmit data to the communication unit. Methods for flow regulation and retrofitting of such a flow regulation system in a district heating system.

IPC 8 full level

**F24D 10/00** (2006.01); **F24D 19/10** (2006.01)

CPC (source: DK EP US)

**F24D 10/003** (2013.01 - EP); **F24D 19/1021** (2013.01 - DK EP US); **F24D 19/1015** (2013.01 - DK)

Citation (search report)

See references of WO 2020083453A1

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)

**WO 2020083453 A1 20200430**; DK 180868 B1 20220608; DK 201870692 A1 20200528; EP 3870905 A1 20210901

DOCDB simple family (application)

**DK 2019050320 W 20191023**; DK PA201870692 A 20181023; EP 19812912 A 20191023