

Title (en)
DEVICE FOR CONTROL ROOM TEMPERATURE OF EACH ROOM ADAPTED TO HEATING ENVIRONMENT AND ITS METHOD

Title (de)
VORRICHTUNG ZUR STEUERUNG DER RAUMTEMPERATUR JEDES RAUMS IN ANPASSUNG AN DIE HEIZUMGEBUNG UND VERFAHREN DAFÜR

Title (fr)
DISPOSITIF DE COMMANDE DE LA TEMPÉRATURE AMBIANTE DE CHAQUE SALLE CONÇU POUR CHAUFFER LE MILIEU ET PROCÉDÉ ASSOCIÉ

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Application
EP 08858274 A 20081022

Priority
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• KR 20070127042 A 20071207

Abstract (en)
[origin: WO2009072744A2] The present invention relates to a device for control room temperature of each room adapted to heating environment that allows a temperature control system to be adapted by itself to heating environment (quantity of heat of a heating source, magnitude of load, difference between setting temperature and room temperature) by reflecting the changes in the heating environment and data obtained by previous heating into the control, and reduces unnecessary energy consumption by controlling the quantity of heat of a boiler at the minimum required level. In order to achieve the above, the present invention includes: a boiler that creates combustion heat, exchanges the heat with heating water, and then circulates the heating water through each heating load; one or more heat pipes that are provided to heating positions; heating control valves that is provided to allow or stop the circulation of the heating water through the heat pipes; an individual room controller that makes it possible to set interior temperature for each room, and converts the set interior temperature into return water control temperature and then outputs the return water control temperature; a valve controller that controls quantity of heat of the boiler by integrating the return water control temperature transmitted from one or more individual room controllers and outputs a control signal to the boiler to maintain the highest return water control temperature of the return water control temperature required by the individual room controller; and a valve actuating unit that turns on/off the valve control valve according to the control signal of the valve controller.

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