

Title (en)  
METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR CONTROLLING AN ACTUATOR WHEN ADJUSTING A TEMPERATURE

Title (de)  
VERFAHREN, VORRICHTUNG UND COMPUTERPROGRAMMPRODUKT ZUR ANSTEUERUNG EINES STELLGLIEDS BEI DER EINSTELLUNG EINER TEMPERATUR

Title (fr)  
PROCÉDÉ, APPAREIL ET PRODUIT DE PROGRAMME INFORMATIQUE POUR COMMANDER UN ACTIONNEUR LORS DE LA RÉGULATION D'UNE TEMPÉRATURE

Publication  
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Application  
**EP 12736198 A 20120113**

Priority  
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• FI 2012050030 W 20120113

Abstract (en)  
[origin: WO2012098288A1] In the invention an actuator (303) of a thermal adjustment device (306) is controlled for adjusting the temperature in a target. For controlling the actuator there are three adjustment blocks: a first adjustment block (304), a second adjustment block (302) and a third adjustment block (305). The adjustment block is a functional entity, which concentrates on the adjustment of the operation of some specific area. The adjustment blocks can be implemented with different devices or combinations of devices or with programs functioning in devices or in a device. Dynamic operating limits, at least a maximum and a minimum, are in the method calculated in the first adjustment block based on scaling constants and scaling variables. The dynamic operating limits change based on the scaling variables. For example when the outside temperature drops, the maximum of the dynamic operating limits can increase. The control signal is defined in the second adjustment block, and it is defined based on the goal temperature, where it is desired for the temperature of the target to settle, and the measured temperature of the target. The dynamic operating limits and the control signal are read and an output signal is calculated in the third adjustment block for controlling the actuator by scaling the control signal with the dynamic operating limits, and the actuator, which controls the thermal adjustment device, is controlled based in the output signal. The output signal can thus vary from the minimum of the dynamic operating limit to the maximum of the dynamic operating limit.

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Citation (search report)  
• [XY] US 2008314998 A1 20081225 - HERZON AARON D [US], et al  
• [Y] US 2003010047 A1 20030116 - SHIMODA JUNICHI [JP]  
• [Y] WO 0212798 A1 20020214 - YAMATAKE CORP [JP], et al  
• See references of WO 2012098288A1

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