

Title (en)
CONTROL OF HEATING, VENTILATION, AIR-CONDITIONING

Title (de)
STEUERUNG VON HEIZUNG, LÜFTUNG, KLIMATISIERUNG

Title (fr)
COMMANDE DE CHAUFFAGE, VENTILATION, CLIMATISATION

Publication
EP 3650761 A1 20200513 (EN)

Application
EP 19179011 A 20190607

Priority
EP 18205609 A 20181112

Abstract (en)
Control of heating, ventilation, air-conditioning. A characteristic position is determined for each valve 7 - 9 and/or for each zone of a structure. Normalised positions are produced by referring each characteristic position to its limit value. Also, measures indicative of comfort are determined for each zone of the structure. The determined measures are used to produce deviation measures. A control algorithm relies on the deviation measures as input values. The control algorithm yields equal comfort in each zone. Also, the output values of the control algorithm for the individual valves 7 - 9 are combined with the limit values of each individual valve 7 - 9 to produce combined individual values. New limit positions for the valves 7 - 9 are finally determined as a function of the combined individual values. It is envisaged to either rely on a single such value or to average a time series of such values.

IPC 8 full level
F24D 19/10 (2006.01)

CPC (source: EP US)
F24F 11/84 (2017.12 - EP US)

Citation (applicant)
• DE 202012012915 U1 20140717 - LE HUU THOI [DE]
• EP 3115703 A1 20170111 - SIEMENS SCHWEIZ AG [CH]
• WO 2013034358 A1 20130314 - BELIMO HOLDING AG [CH], et al
• DE 102017203850 A1 20180913 - VIESSMANN WERKE KG [DE]
• DE 102014102275 A1 20150827 - EQ 3 HOLDING GMBH [DE]

Citation (search report)
• [A] DE 102017203850 A1 20180913 - VIESSMANN WERKE KG [DE]
• [A] DE 102014102275 A1 20150827 - EQ 3 HOLDING GMBH [DE]
• [AD] EP 3115703 A1 20170111 - SIEMENS SCHWEIZ AG [CH]

Cited by
EP4343213A1; EP4170248A1; EP3982048A1; US11708988B2

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

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