Title (en)

Method and device for control and regulation

Title (de)

Verfahren und Vorrichtung zur Steuerung und Regelung

Title (fr)

Procédé et dispositif de commande et régulation

Publication

EP 0530072 B1 19960918 (FR)

Application

EP 92402262 A 19920811

Priority

FR 9110569 A 19910823

Abstract (en)

[origin: EP0530072A1] The invention relates to a device for control of a quantity x, by acting on a control quantity y with which the quantity x is in a one-to-one relationship when the value of a parameter h to which the quantity x is sensitive remains constant, the quantity x itself being, for each of the controlled values xp, a one-to-one function of the parameter h, the parameter h being capable of varying in an interval including a reference value hi, and for each of the values xp it is known to define a function yp = gp(h), yp being the value to be given to the quantity y to obtain the value xp when the parameter has the value h, the various functions gp(h) having the property that the value of a second function gp, (h) may be deduced from the value of a first function gp(h) for the same value of the parameter h by addition of a term known as a function of the difference between the real measured value hr of the parameter h and the reference value hi, the device being characterised in that the quantity x is represented by the output magnitude of an operational amplifier (10) having two inputs, a first (11) and a second (12) and in that to the first input (11) is applied, by means of a control 200, a voltage Ui representative of the control quantity yi to be applied in order to obtain the output quantity of value xi when h has the value hi, to the second input (12) a voltage Vc is applied which is the output quantity corrected by a correction device (40) of a sensor (30) of the parameter h, the output of the sensor (30) being corrected by the device (40) so that the corrected voltage Vc is equal to zero when h = hi and, in the opposite case equal to H(hr - hi). <IMAGE>

IPC 1-7

G05F 1/567

IPC 8 full level

H03G 3/12 (2006.01); **G05F 1/46** (2006.01); **G05F 1/567** (2006.01)

CPC (source: EP US)

G05F 1/462 (2013.01 - EP US); **G05F 1/567** (2013.01 - EP US); Y10S 323/907 (2013.01 - EP US)

Cited by

CN112764448A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0530072 A1 19930303; **EP 0530072 B1 19960918**; CA 2076475 A1 19930224; DE 69213869 D1 19961024; DE 69213869 T2 19970130; FR 2680587 A1 19930226; FR 2680587 B1 19931015; JP H06268459 A 19940922; US 5341287 A 19940823

DOCDB simple family (application)

EP 92402262 A 19920811; CA 2076475 A 19920820; DE 69213869 T 19920811; FR 9110569 A 19910823; JP 22282592 A 19920821; US 92971192 A 19920812