Title (en)

AUTOMATIC CONTROL PROCESS AND DEVICE, IN PARTICULAR LAMBDA CONTROL

Publication

EP 0370091 B1 19910918 (DE)

Application

EP 89905393 A 19890510

Priority

DE 3816520 A 19880514

Abstract (en)

[origin: WO8911032A1] A process for adapting the pilot control value of a control system is based on the fact that when the service conditions match the calibration conditions for the initial determination of pilot control values, no deviation of the correcting variable may occur in any operating area and on the fact that, accordingly, the deviations that nevertheless occur indicate that the calibration conditions no longer exist. This can be caused by the effects of aging or by uncompensated disturbances. Said process consists in determining the differences in the deviations of the correcting variable according to the different classes of an actuating variable. For each class of the actuating variable, a correcting value is then determined in such a way that said correcting value should compensate the previously observed error for the corresponding area during operation of the control member. Said process provides precise sectorial adaptation in an off-line process and is thus particularly suited for the pilot control of the lambda-value of an internal-combustion engine. Devices required for implementing said process are low-cost microcomputers which are too limited in their operating speed to perform complicated adaptation procedures on line; but if said devices are provided with a counter panel which can be interpreted off line, they are perfectly suitable for precise, i.e. sectional adaptation.

IPC 1-7

F02D 41/14; F02D 41/26

IPC 8 full level

F02D 41/14 (2006.01); **F02D 41/26** (2006.01)

CPC (source: EP KR US)

F02D 41/2432 (2013.01 - EP US); **F02D 41/2441** (2013.01 - EP US); **F02D 41/2454** (2013.01 - EP US); **F02D 41/26** (2013.01 - KR)

Citation (examination)

Patent Abstracts of Japan, Band 9, Nr. 249 (M-419)(1972), 05.10.1985 & JP, A, 60101243 (Tomizawa) 5. Juni 1985

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Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

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