

Title (en)

METHOD AND APPARATUS FOR PRODUCING A TIME-VARYING POSITION CONTROL VOLTAGE

Publication

**EP 0179219 A3 19880127 (DE)**

Application

**EP 85110402 A 19850820**

Priority

DE 3434644 A 19840921

Abstract (en)

[origin: US4675589A] In a method for producing a pulsed setting voltage (v). said voltage is pulse-duration modulated with an electric control variable. The setting voltage serves to act on a setting drive having an inductance, particularly an electric motor setting drive (9) of a throttle valve (11) of an internal combustion engine. In order to obtain at the same time good periodic excitation of the setting drive as well as a low electric loss power in the setting drive, the setting voltage which is pulsed with a high clock frequency (f0) is pulse-duration modulated with a low fundamental-modulation frequency (fm) as well as a control variable.

IPC 1-7

**B60K 31/02**; **F02D 11/10**

IPC 8 full level

**F02D 11/10** (2006.01); **F02D 41/20** (2006.01); **G05B 11/26** (2006.01); **H02P 7/29** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [X] EP 0118175 A2 19840912 - KASIEWICZ STANLEY JOSEPH
- [X] GB 2108717 A 19830518 - SONY CORP
- [A] GB 1016205 A 19660105 - VDO SCHINDLING
- [A] US 4217867 A 19800819 - ELY JEFFREY A [US], et al

Cited by

EP0353072A1; FR2648190A1

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DE FR GB IT NL SE

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**EP 0179219 A2 19860430**; **EP 0179219 A3 19880127**; DE 3434644 A1 19860403; JP S6181194 A 19860424; US 4675589 A 19870623

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