

Title (en)

CONTROL SYSTEM FOR CONTROLLING DC CONTROL MOTOR WHICH CONTROLS OPERATION CONDITION OF INTERNAL COMBUSTION ENGINE

Publication

**EP 0445848 A3 19911218 (EN)**

Application

**EP 91107702 A 19880301**

Priority

- EP 88301766 A 19880301
- JP 4528787 A 19870302

Abstract (en)

[origin: EP0445848A2] A control system for controlling a DC control motor which controls an internal combustion engine to follow-up a target value varying continuously depending on the operation condition of the engine, the current flowing through the DC control motor being controlled through pulse width modulation. The control system comprises: means for detecting the operation condition of the engine; processor means for calculating and setting a target value depending on the operation condition of the engine; detector means for detecting the up-to-date value of the DC control motor; discriminator means for discriminating a difference between the target value and the up-to-date value to supply an output signal for changing the duty ratio of the current flowing through the DC control motor depending on the difference; a driver for energizing the DC control motor in response to the output signal from the discriminator means; and monitor means for controlling the changing rate of the up-to-date value and for increasing the duty ratio when the changing rate of the up-to-date value is less than a programmed rate. <IMAGE>

IPC 1-7

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IPC 8 full level

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**F02D 9/04** (2013.01); **F02D 35/0007** (2013.01)

Citation (search report)

- [Y] GB 2142168 A 19850109 - HONDA MOTOR CO LTD
- [Y] US 4603675 A 19860805 - JUNGINGER ERICH [DE], et al
- [A] US 4371822 A 19830201 - OTSUKA KAZUO [JP], et al
- [A] GB 2175643 A 19861203 - ORBITAL ENG PTY
- [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 77 (M-464)(2134) 26 March 1986 & JP-A-60 219 445 ( TOYOTA JIDOSHA K.K. ) 2 November 1985

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