

Title (en)

METHOD AND APPARATUS FOR REGULATING THE ROTATIONAL SPEED OF A COMBUSTION ENGINE

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Application

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Priority

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Abstract (en)

[origin: US4572125A] A system for regulating rotary speed of an internal combustion engine includes an idling volumetric efficiency or charge regulating system and an overrun or push cutoff system to maintain a minimum rotary speed of the engine during important operational modes. The system is provided with means which eliminate undesired overrun cutoff of intentionally increased rotary speeds of the engine induced by the idling volumetric efficiency regulating system. The actual value of the control signal produced by the regulating system is compared with a limit or threshold value and after the threshold is exceeded the function of the overrun cutoff device is blocked. The regulating system includes a PID regulator which in combination with the circuit of this invention produces a dynamic behavior of the resetting rotary speed of the overrun cutoff function.

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