

Title (en)

Idling speed control apparatus for internal combustion engine

Title (de)

Vorrichtung zur Regelung der Leerlaufdrehzahl einer Brennkraftmaschine

Title (fr)

Dispositif pour commander la vitesse de ralenti d'un moteur à combustion interne

Publication

EP 1296044 A3 20060503 (EN)

Application

EP 02016893 A 20020730

Priority

JP 2001291297 A 20010925

Abstract (en)

[origin: EP1296044A2] To provide an idling speed control apparatus for an internal combustion engine which can perform positioning of a step motor accurately without additionally providing a battery. The idling speed control apparatus includes storage means 11 for storing an engine stop step number Pstop, means for driving the step motor based on a target position step number Pt which represents a target position of the step motor and a present position step number Px which represents the present position of the step motor, and idling state discrimination means 52 for discriminating whether or not the idling is in a steady state. Upon starting of the engine, the engine stop step number Pstop is registered as the present position step number, and when it is discriminated that the idling is in a steady state, the present position step number is rewritten into a reference step number which is a predetermined constant and the present position step number is stored as the idling reference step number.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] US 4747379 A 19880531 - OBA HIDEHIRO [JP]
- [X] US 5002026 A 19910326 - OHKUMO HIROYA [JP], et al
- [X] US 5228421 A 19930720 - ORZEL DANIEL V [US]
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Cited by

CN103195597A

Designated contracting state (EPC)

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EP 1296044 A2 20030326; **EP 1296044 A3 20060503**; **EP 1296044 B1 20110323**; DE 60239511 D1 20110505; JP 2003097320 A 20030403

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