

Title (en)

Air bypass valve in throttle body

Title (de)

Bypassventil einem Drosselkörper

Title (fr)

Soupape de derivation d'air dans une valve papillon

Publication

**EP 1760302 A3 20100804 (EN)**

Application

**EP 06119419 A 20060823**

Priority

JP 2005240554 A 20050823

Abstract (en)

[origin: EP1760302A2] An objective of the present invention is to provide an air bypass control device in which a characteristic of supplying by pass air with respect to an opening change of a plunger can be set linearly, and variation of the bypass air can be prevented. A control groove 1 is provided at a plunger guide hole 16 along a longitudinal axis direction X-X of the hole 16, and opened on a side wall 16a of the plunger guide hole 15. A first bypass air passage 14a connected with an intake passage 11a on the upstream side from a throttle valve is opened toward and connected with the control groove 1. A second bypass air passage 14b connected with an intake passage 11b on the downstream side from the throttle valve is opened toward and connected with the plunger guide hole 16, which is placed lower than the control groove 1. A plunger 18 is movably provided in the plunger guide hole 16, so as to move along the longitudinal axis direction X-X of the hole 16. The plunger 18 controls opening and closing of the control groove 1.

IPC 8 full level

**F02M 3/06** (2006.01)

CPC (source: EP)

**F02D 9/1055** (2013.01); **F02D 31/005** (2013.01); **F02M 3/06** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

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DOCDB simple family (publication)

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