

Title (en)

THROTTLE VALVE ARRANGEMENT FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

DROSSELKLAPPENANORDNUNG EINER VERBRENNUNGSKRAFTMASCHINE

Title (fr)

AGENCEMENT DE CLAPET D'ETRANGLEMENT POUR UN MOTEUR A COMBUSTION INTERNE

Publication

EP 0937197 B1 20020508 (DE)

Application

EP 97944676 A 19971027

Priority

- EP 97944676 A 19971027
- CH 9700407 W 19971027
- EP 96810757 A 19961108

Abstract (en)

[origin: EP0841477A1] The device consists of a throttle (1) of mainly light metal in a cast housing (2), mainly of light metal. The metals of both housing and throttle have a comparable thermal length expansion coefficient, with a differential of maximum 5% relative to the smaller expansion coefficient. Within a temperature of range of 20-100 degrees C, preferably from -40 degrees C to 140 degrees C, the differential is maximum 5%, functionally maximum 5% and preferably maximum 2%. The light metal is an aluminium alloy, e.g. AlSi, AlSiMg, or AlSiCu.

IPC 1-7

F02D 9/10; F02M 35/10

IPC 8 full level

F02D 9/02 (2006.01); **F02D 9/10** (2006.01); **F02M 35/10** (2006.01)

CPC (source: EP)

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