

Title (en)

Throttle valve housing for an internal-combustion engine.

Title (de)

Drosselklappenstutzen für eine Brennkraftmaschine.

Title (fr)

Corps de soupape d'étranglement pour moteur à combustion interne.

Publication

EP 0272373 A1 19880629 (DE)

Application

EP 87110199 A 19870715

Priority

DE 3643948 A 19861222

Abstract (en)

[origin: US4836163A] In the throttle butterfly (2) of a throttle-butterfly connector piece of an internal combustion engine there is provided an expansion member (5) which has two arcuate pieces (6,7) which extend out of the circumferential surface of the throttle butterfly (2). The free ends of the arcuate pieces (6, 7) rest against a setting surface (8) which is provided on the housing (1) of the throttle-butterfly connector piece. The setting surface (8) is developed in such a manner that the arcuate piece (6, 7) is spread and the surface of the throttle butterfly (2) is increased with small angles of opening as compared with what it is in its closed condition.

Abstract (de)

In der Drosselklappe (2) eines Drosselklappenstutzens einer Brennkraftmaschine ist ein Spreizkörper (5) vorgesehen, der mit zwei Bogenstücken (6, 7) aus der Umfangsfläche der Drosselklappe (2) ragt. Die freien Enden der Bogenstücke (6, 7) liegen gegen eine Stellfläche (8) an, die am Gehäuse (1) des Drosselklappenstutzens vorgesehen ist. Die Stellfläche (8) ist so gestaltet, daß die Bogenstücke (6, 7) gespreizt und die Drosselklappe (2) bei kleinen Öffnungswinkeln großflächiger wird als im geschlossenen Zustand.

IPC 1-7

F02D 9/10

IPC 8 full level

F16K 1/22 (2006.01); **F02D 9/10** (2006.01); **F02M 3/14** (2006.01)

CPC (source: EP US)

F02D 9/1015 (2013.01 - EP US); **F02M 3/14** (2013.01 - EP US); **Y10T 137/86984** (2015.04 - EP US); **Y10T 137/87024** (2015.04 - EP US); **Y10T 137/87032** (2015.04 - EP US)

Citation (search report)

- [X] DE 281542 C
- [A] US 4344396 A 19820817 - YAMADA MINORU
- [A] EP 0050707 A1 19820505 - VDO SCHINDLING [DE]
- [A] GB 1183813 A 19700311 - BRYAN DONKIN CO LTD

Cited by

EP0494344A1; WO9113245A3; WO2008043754A1; WO9635866A3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0272373 A1 19880629; **EP 0272373 B1 19900117**; DE 3643948 A1 19880623; DE 3761447 D1 19900222; JP S63167038 A 19880711; US 4836163 A 19890606

DOCDB simple family (application)

EP 87110199 A 19870715; DE 3643948 A 19861222; DE 3761447 T 19870715; JP 23506087 A 19870921; US 13565987 A 19871221