

Title (en)

ELECTRONICALLY CONTROLLED THROTTLE VALVE WITH ELLIPTICAL BORE AND THROTTLE VALVE

Title (de)

ELEKTRONISCH GESTEUERTE DROSSELKLAPPE MIT ELLIPTISCHEM QUERSCHNITT UND DROSSELKLAPPE

Title (fr)

PAPILLON DES GAZ A COMMANDE ELECTRONIQUE COMPORTANT UN ALESAGE ELLIPTIQUE ET UN ROBINET D'ETRANGLEMENT

Publication

EP 1230473 A1 20020814 (EN)

Application

EP 00975700 A 20001109

Priority

- CA 0001330 W 20001109
- US 16640199 P 19991118

Abstract (en)

[origin: WO0136799A1] The subject invention is a throttle body assembly having an elliptically shaped airflow passage and throttle valve such that the overall height of the throttle body is reduced. The air passage includes a contoured bore that allows the airflow passage to be fabricated to reduce the height of the throttle body. The throttle valve rotates between an open and closed position to regulate airflow through the airflow passage. The airflow passage includes a contoured shape and the throttle valve includes a periphery. The contoured shape is disposed in the airflow passage such that a predetermined distance between the edge of the throttle valve and the airflow passage is maintained for a predetermined amount of rotation of the throttle valve.

IPC 1-7

F02D 9/10

IPC 8 full level

F02D 9/02 (2006.01); **F02D 9/10** (2006.01); **F02D 11/10** (2006.01)

CPC (source: EP)

F02D 9/104 (2013.01); **F02D 9/1065** (2013.01); **F02D 11/10** (2013.01); **F02D 2011/102** (2013.01); **F05C 2201/021** (2013.01)

Citation (search report)

See references of WO 0136799A1

Designated contracting state (EPC)

AT BE CH DE FR GB LI

DOCDB simple family (publication)

WO 0136799 A1 20010525; EP 1230473 A1 20020814; JP 2004512451 A 20040422

DOCDB simple family (application)

CA 0001330 W 20001109; EP 00975700 A 20001109; JP 2001538657 A 20001109