

Title (en)  
Throttle valve.

Title (de)  
Drosselklappe.

Title (fr)  
Papillon.

Publication  
**EP 0412237 B1 19931103 (DE)**

Application  
**EP 90102060 A 19900202**

Priority  
DE 3926424 A 19890810

Abstract (en)  
[origin: EP0412237A1] The adjusting device for a throttle valve is described in which the maximum opening angle of the throttle valve is mechanically predetermined, whilst smaller angles are electronically controlled. Should the electronics fail the throttle valve engages in the mechanical setting and can thereby continue to be operated mechanically. <IMAGE>

IPC 1-7  
**F02D 11/10**

IPC 8 full level  
**F02D 9/02** (2006.01); **F02D 11/10** (2006.01)

CPC (source: EP US)  
**F02D 11/107** (2013.01 - EP US)

Cited by  
EP0483448A1; US5131360A; EP0475018A1; EP1719891A3; US6758180B2; EP0427097B1

Designated contracting state (EPC)  
DE ES FR IT SE

DOCDB simple family (publication)  
**EP 0412237 A1 19910213; EP 0412237 B1 19931103**; DE 3926424 A1 19910214; DE 59003310 D1 19931209; ES 2045587 T3 19940116; JP 2781049 B2 19980730; JP H0370827 A 19910326; US 5076231 A 19911231

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**EP 90102060 A 19900202**; DE 3926424 A 19890810; DE 59003310 T 19900202; ES 90102060 T 19900202; JP 5477890 A 19900306; US 56528190 A 19900809