

Title (en)  
Throttle valve.

Title (de)  
Drosselklappe.

Title (fr)  
Papillon d'accélérateur.

Publication  
**EP 0389649 B1 19940511 (DE)**

Application  
**EP 89105378 A 19890325**

Priority  
EP 89105378 A 19890325

Abstract (en)  
[origin: EP0389649A1] The control device for a throttle valve is described in which the maximum opening angle of the throttle valve is mechanically predetermined, whilst smaller angles can also be controlled electrically. An idle filling control can be incorporated into the electrical control, a stop thereby ensuring a mechanically predeterminable minimum opening angle > 0. <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 11/10** (2013.01 - EP US); **F02D 2011/103** (2013.01 - EP US)

Cited by  
EP0483448A1; EP0475018A1; EP2180167A1; EP0427097A1; US5074266A; DE10334475A1; DE10334475B4; US5131360A; WO2013034301A3

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**EP 0389649 A1 19901003; EP 0389649 B1 19940511**; DE 58907650 D1 19940616; ES 2051912 T3 19940701; JP 2781048 B2 19980730; JP H02275031 A 19901109; US 5018496 A 19910528

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**EP 89105378 A 19890325**; DE 58907650 T 19890325; ES 89105378 T 19890325; JP 5477790 A 19900306; US 49834190 A 19900323