

Title (en)  
Throttle valve assembly

Title (de)  
Drosselklappenstutzen

Title (fr)  
Corps de papillon

Publication  
**EP 0444239 B2 19990317 (DE)**

Application  
**EP 90117606 A 19900913**

Priority  
DE 4006041 A 19900226

Abstract (en)  
[origin: EP0444239A2] A set point transmitter (2), which has an actuating spindle (5) in alignment with the throttle valve spindle (3), is flanged to a throttle housing (1). The actuating spindle (5) engages rotatably by means of a spigot (9) in a bearing bush (11), which is likewise arranged rotatably in a bearing hole (10) in the throttle valve spindle (3). As a result, there is a two-fold possibility for the rotation of the actuating spindle (5) relative to the throttle valve spindle (3). It is unnecessary to support the actuating spindle in the casing on the side on which the throttle valve spindle (3) is situated. <IMAGE>

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

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

CPC (source: EP US)  
**F02D 11/10** (2013.01 - EP US); **F02D 11/106** (2013.01 - EP US); **F02D 2009/0294** (2013.01 - EP US); **F02D 2011/103** (2013.01 - EP US)

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**EP 0444239 A2 19910904; EP 0444239 A3 19920708; EP 0444239 B1 19931013; EP 0444239 B2 19990317**; DE 4006041 A1 19910829; DE 59003088 D1 19931118; ES 2045703 T3 19940116; JP 3390022 B2 20030324; JP H04219425 A 19920810; US 5071103 A 19911210

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**EP 90117606 A 19900913**; DE 4006041 A 19900226; DE 59003088 T 19900913; ES 90117606 T 19900913; JP 3011891 A 19910225; US 64356891 A 19910118