

Title (en)  
DEVICE FOR INTERNAL COMBUSTION ENGINES

Title (de)  
VORRICHTUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)  
DISPOSITIF POUR MOTEURS A COMBUSTION INTERNE

Publication  
**EP 0767870 B1 19990804 (DE)**

Application  
**EP 95935850 A 19951107**

Priority  
• DE 9501534 W 19951107  
• DE 4443502 A 19941207

Abstract (en)  
[origin: DE4443502A1] A device (1) has several components, of which at least one rotary throttle member arranged in a throttle valve pipe (11) and capable of being actuated by a throttle pipe regulating engine (3), an electronic controller (4), a regenerating valve (5) and/or an air volume meter (20). All these components are contained in a common housing (10) and form a modular unit that can be preassembled. This device is suitable in particular for mixture-compressing, spark ignited internal combustion engines.

IPC 1-7  
**F02D 9/10**; **F02D 11/10**

IPC 8 full level  
**F02M 25/08** (2006.01); **F02D 9/02** (2006.01); **F02D 9/10** (2006.01); **F02D 11/10** (2006.01); **F02D 35/00** (2006.01); **F02B 1/04** (2006.01)

CPC (source: EP KR US)  
**F02D 9/10** (2013.01 - EP KR US); **F02D 9/1065** (2013.01 - EP US); **F02D 11/10** (2013.01 - EP KR US); **F02B 1/04** (2013.01 - EP US); **F02D 2400/18** (2013.01 - EP US); **F05C 2201/021** (2013.01 - EP US)

Citation (examination)  
• US 4926821 A 19900522 - PORTH WOLFGANG [DE], et al  
• US 4995369 A 19910226 - COOK JOHN E [CA]  
• DE 3844354 A1 19900705 - BOSCH GMBH ROBERT [DE]  
• DE 4023044 A1 19920123 - BOSCH GMBH ROBERT [DE]

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**DE 4443502 A1 19960613**; CN 1067140 C 20010613; CN 1137820 A 19961211; DE 59506537 D1 19990909; EP 0767870 A1 19970416; EP 0767870 B1 19990804; JP H09508954 A 19970909; KR 970700817 A 19970212; RU 2140555 C1 19991027; TW 285699 B 19960911; US 5718202 A 19980217; WO 9618028 A1 19960613

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**DE 4443502 A 19941207**; CN 95191110 A 19951107; DE 59506537 T 19951107; DE 9501534 W 19951107; EP 95935850 A 19951107; JP 51722996 A 19951107; KR 19960703949 A 19960723; RU 96118103 A 19951107; TW 84111427 A 19951028; US 69319296 A 19960823