

Title (en)  
INTAKE DEVICE OF ENGINE

Title (de)  
ANSAUGVORRICHTUNG EINER BRENNKRAFTMASCHINE

Title (fr)  
DISPOSITIF D'ADMISSION DE MOTEUR

Publication  
**EP 1347162 A4 20060726 (EN)**

Application  
**EP 01998725 A 20011121**

Priority  

- JP 0110160 W 20011121
- JP 2000364574 A 20001130
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- JP 2000364576 A 20001130

Abstract (en)  
[origin: EP1347162A1] A bypass passage (15) is formed in a throttle body (1) and comprised of a bypass inlet bore (15i) and a bypass outlet bore (15o), which open into an upstream portion and a downstream portion of an intake passage (2) respectively with a throttle valve (5) interposed therebetween, and a bypass intermediate portion (15m) which is provided in a device block (11) detachably secured to a mounting surface (10a) formed on the throttle body (1) and is connected at its opposite ends to the bypass inlet bore (15i) and the bypass outlet bore (15o), respectively, and a bypass valve (25), an actuator (28) and an output portion (8b) of a throttle sensor (8) are mounted to the device block (11) to form a bypass valve/sensor assembly (43). The bypass valve/sensor assembly (43) can be fabricated in parallel with the formation of the throttle body (1). Thus, it is possible to provide an enhancement in productivity of an air intake system in an engine. <IMAGE>

IPC 1-7  
**F02D 33/00**; **F02D 9/10**

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

CPC (source: EP)  
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Citation (search report)  

- [X] WO 9635047 A1 19961107 - BOSCH GMBH ROBERT [DE], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 03 27 February 1998 (1998-02-27)
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 132 (M - 303) 20 June 1984 (1984-06-20)
- See references of WO 0244541A1

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**EP 1347162 A1 20030924**; **EP 1347162 A4 20060726**; **EP 1347162 B1 20080806**; CN 1274952 C 20060913; CN 1478175 A 20040225; DE 60135245 D1 20080918; EP 1811152 A2 20070725; EP 1811152 A3 20100414; EP 1811152 B1 20110928; EP 1811153 A2 20070725; EP 1811153 A3 20100519; EP 1811153 B1 20140416; JP 3935075 B2 20070620; JP WO2002044541 A1 20040402; TW 544487 B 20030801; WO 0244541 A1 20020606

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