

Title (en)  
Engine intake system

Title (de)  
Ansaugsystem für einen Motor

Title (fr)  
Système d'admission de moteur

Publication  
**EP 1867852 A3 20080409 (EN)**

Application  
**EP 07010979 A 20070604**

Priority  
JP 2006163721 A 20060613

Abstract (en)  
[origin: EP1867852A2] An engine intake system includes: a bypass (15) bypassing a throttle valve (7) and connected to an intake path (2); and a bypass valve (20) for regulating an opening degree of the bypass (15). A part of the bypass (15) includes: an inlet port (15a) provided in a throttle body (1) so that the inlet port (15a) is open in the intake path (2) at a position upstream of the throttle valve (7); a valve hole (15b) provided in the throttle body (1) so as to fittingly receive therein the bypass valve (20); and an outlet port (15f) provided in the throttle body (1) so that the outlet port (15f) is open in the intake path (2) at a position downstream of the throttle valve (7). The valve hole (15b) is arranged on a side opposite from the outlet port (15f) with the throttle valve (7) interposed therebetween, and at a position above the outlet port (15f) and parallel with the shaft-receiving hole (5, 6) supporting a valve shaft (7a) of the throttle valve (7). Thus, there is provided a small engine intake system in which engine blowback has a difficulty in reaching a bypass valve, and which has an excellent productivity.

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

CPC (source: EP)  
**F02D 9/105** (2013.01); **F02D 9/1055** (2013.01); **F02D 11/10** (2013.01); **F02D 9/107** (2013.01)

Citation (search report)

- [Y] JP 2005113718 A 20050428 - KEIHIN CORP
- [Y] JP H09303164 A 19971125 - HITACHI LTD
- [A] JP S5934444 A 19840224 - MITSUBISHI ELECTRIC CORP

Cited by  
CN111226028A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1867852 A2 20071219; EP 1867852 A3 20080409; EP 1867852 B1 20090729**; BR PI0702765 A 20080219; BR PI0702765 B1 20180703; DE 602007001726 D1 20090910; JP 2007332829 A 20071227; JP 4690950 B2 20110601

DOCDB simple family (application)  
**EP 07010979 A 20070604**; BR PI0702765 A 20070612; DE 602007001726 T 20070604; JP 2006163721 A 20060613