

Title (en)
ENGINE INTAKE DEVICE

Title (de)
MOTOREINLASSVORRICHTUNG

Title (fr)
DISPOSITIF D'ADMISSION DE MOTEUR

Publication
EP 1384874 A4 20090311 (EN)

Application
EP 02720533 A 20020419

Priority
• JP 0203948 W 20020419
• JP 2001132575 A 20010427

Abstract (en)
[origin: EP1384874A1] In an intake system for an engine, a joint surface (11a) of a device block (11) is coupled to a mounting surface (1a) of a throttle body (1) parallel to an intake passage (2), and a bypass passage (15) is comprised of a bypass inlet bore (20) provided to permit the communication between an upstream portion of the intake passage (2) and the mounting surface (1a), a bypass outlet bore (21) provided to permit the communication between a downstream portion of the intake passage (2) and the mounting surface (1a), an upstream groove (16) defined in the joint surface (11a), a downstream groove (17) defined in the joint surface (11a), and a valve chest (22) provided to permit the communication between the upstream groove (16) and the downstream groove (17). The bypass valve (25) facing the valve chest (22) and an actuator (28) are disposed in the device block (11) in parallel to the joint surface (11a), and a throttle sensor (8) is disposed in the device block (11). Thus, it is possible to compactly construct the intake system of the engine including the bypass valve and the actuator for the bypass valve, leading to enhancements in workability and assemblability. <IMAGE>

IPC 8 full level
F02D 33/00 (2006.01); **F02B 61/02** (2006.01); **F02D 9/10** (2006.01); **F02D 11/10** (2006.01); **F02D 35/00** (2006.01)

CPC (source: EP)
F02B 61/02 (2013.01); **F02D 9/10** (2013.01); **F02D 9/106** (2013.01); **F02D 9/1065** (2013.01); **F02D 11/10** (2013.01); **F02D 35/003** (2013.01); **F05C 2201/021** (2013.01)

Citation (search report)
• [A] JP H10299624 A 19981110 - HITACHI LTD, et al
• [A] JP H11280526 A 19991012 - KEIHIN CORP
• [A] EP 0676543 A1 19951011 - MAGNETI MARELLI FRANCE [FR]
• See references of WO 02097254A1

Cited by
EP1422419A4; EP1785615A1; EP1734236A4; TWI403640B

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 1384874 A1 20040128; EP 1384874 A4 20090311; EP 1384874 B1 20101208; CN 1297736 C 20070131; CN 1505732 A 20040616; DE 60238525 D1 20110120; ES 2355359 T3 20110325; TW 575712 B 20040211; WO 02097254 A1 20021205

DOCDB simple family (application)
EP 02720533 A 20020419; CN 02808953 A 20020419; DE 60238525 T 20020419; ES 02720533 T 20020419; JP 0203948 W 20020419; TW 91108740 A 20020426