

Title (en)  
THROTTLE BODY ASSEMBLY WITH ATTACHED BYPASS CONTROL DEVICE

Title (de)  
DROSSELKLAPPENBAUGRUPPE MIT EINER DARAN ANGEBRACHTEN BYPASS-STEUERUNGSVORRICHTUNG

Title (fr)  
ENSEMBLE CORPS DE PAPILLON DES GAZ AUQUEL EST ATTACHÉ UN DISPOSITIF DE COMMANDE DE DÉRIVATION

Publication  
**EP 2975258 A4 20161228 (EN)**

Application  
**EP 14762516 A 20140311**

Priority  
• JP 2013052456 A 20130314  
• JP 2013075680 A 20130401  
• JP 2014056255 W 20140311

Abstract (en)  
[origin: EP2975258A1] In a throttle body assembly with an attached bypass control device, a control base (5) is joined to a mounting face (1a) formed on one side of the throttle body (1), a first communication groove (16) communicating with a downstream end of an upstream passage (14) of the bypass (13) and a second communication groove (17) communicating with an upstream end of a downstream passage (15) of the bypass (13) are formed in the mounting face (1a), a valve guide hole (7), an inflow hole (11) providing communication between the first communication groove (16) and the valve guide hole (7), and a metering hole (10) providing communication between the second communication groove (17) and the valve guide hole (7) and being opened and closed by a control valve (12) are formed in the control base (5), and the valve guide hole (7), the control valve (12), and the electric motor (20) are provided so that a common axis (Y) thereof points in a direction perpendicular to an axis (X) of an air intake path (2), and the metering hole (10) and a downstream end part of the downstream passage (15) are disposed with an offset (S) from each other along the axis (X) of the air intake path (2). This enables the bypass control device to be formed and assembled separately from the throttle body assembly.

IPC 8 full level  
**F02M 69/32** (2006.01); **F02D 9/10** (2006.01)

CPC (source: EP)  
**F02D 9/1035** (2013.01); **F02D 9/1055** (2013.01); **F02M 69/32** (2013.01)

Citation (search report)  
• [A] JP H11257173 A 19990921 - KEIHIN CORP, et al  
• [A] JP 2004183523 A 20040702 - KEIHIN CORP, et al  
• [A] JP 2002349397 A 20021204 - HONDA MOTOR CO LTD  
• [A] US 2008280512 A1 20081113 - OZAKI ATSUFUMI [JP], et al  
• [A] US 2009114186 A1 20090507 - ONUMA MICHIO [JP], et al  
• See references of WO 2014142093A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2975258 A1 20160120**; **EP 2975258 A4 20161228**; **EP 2975258 B1 20180530**; BR 112015020570 A2 20170718;  
BR 112015020570 B1 20220315; CN 105008711 A 20151028; CN 105008711 B 20171117; WO 2014142093 A1 20140918

DOCDB simple family (application)  
**EP 14762516 A 20140311**; BR 112015020570 A 20140311; CN 201480013238 A 20140311; JP 2014056255 W 20140311