

Title (en)

INTAKE COMPONENT ATTACHMENT STRUCTURE FOR VEHICULAR INTERNAL COMBUSTION ENGINE

Title (de)

STRUKTUR ZUR BEFESTIGUNG EINER ANSAUGKOMPONENTE FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)

STRUCTURE DE FIXATION DE COMPOSANTS D'ADMISSION POUR MOTEUR À COMBUSTION INTERNE DE VÉHICULE

Publication

**EP 3521606 A4 20191106 (EN)**

Application

**EP 16917733 A 20160930**

Priority

JP 2016079025 W 20160930

Abstract (en)

[origin: EP3521606A1] An intake component attachment structure for a vehicular internal combustion engine is provided, in which among a plurality of intake components forming an intake system of an internal combustion engine, a proper combination of intake components that are attached to each other is specifically set so that modification thereof is impossible, wherein in an area where a first intake component (37A) made of a metal and a second intake component (41A) made of a resin are joined, a projecting part (58, 59) is provided on one of the first and second intake components (37A, 41A), and a recess part (60, 61) is provided in the other of the first and second intake components (37A, 41A), the projecting part (58, 59) being fitted into the recess part (60, 61) at the time of the proper combination. This makes exchange of a combination impossible while ensuring a high degree of freedom in placement of a projecting part and a recess part and a high degree of freedom in the design thereof.

IPC 8 full level

**F02M 35/02** (2006.01); **F02M 35/04** (2006.01); **F02M 35/10** (2006.01)

CPC (source: EP)

**F02M 35/0204** (2013.01); **F02M 35/04** (2013.01); **F02M 35/10** (2013.01); **F02M 35/10078** (2013.01); **F02M 35/10085** (2013.01); **F02M 35/10144** (2013.01)

Citation (search report)

- [XY] WO 2016146418 A1 20160922 - MAHLE INT GMBH [DE]
- [Y] JP H11173170 A 19990629 - DENSO CORP
- [A] DE 102010020875 A1 20101125 - FORD GLOBAL TECH LLC [US]
- [A] DE 202012001824 U1 20120530 - MAZDA MOTOR [JP]
- See references of WO 2018061183A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3521606 A1 20190807**; **EP 3521606 A4 20191106**; WO 2018061183 A1 20180405

DOCDB simple family (application)

**EP 16917733 A 20160930**; JP 2016079025 W 20160930