

Title (en)

Intake system for an internal combustion engine

Title (de)

Ansaugvorrichtung für eine Brennkraftmaschine

Title (fr)

Système d'admission pour un moteur à combustion interne

Publication

EP 1283351 B1 20061213 (DE)

Application

EP 02014380 A 20020628

Priority

DE 10139435 A 20010810

Abstract (en)

[origin: EP1283351A2] The intake device has esp. an air tube with its end fastened captive and detachable to an aperture in an engine component, e.g. an air filter housing (2,4). Retainer elements for fasteners (24,26) located on the aperture engage through bearing sleeves on the end of the air tube (6,8). Retainers and fasteners are formed integrally with a ring collar around the aperture. A flange on the end of the air pipe engages into the collar. The flange has a peripheral groove with sealing ring.

IPC 8 full level

F02M 35/10 (2006.01)

CPC (source: EP US)

F02M 35/10144 (2013.01 - EP US); **F02M 35/10157** (2013.01 - EP US)

Cited by

DE102013203096A1; US9885327B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1283351 A2 20030212; EP 1283351 A3 20031112; EP 1283351 B1 20061213; DE 10139435 A1 20030227; DE 50208935 D1 20070125; JP 2003065172 A 20030305; JP 4358488 B2 20091104; US 2003029407 A1 20030213; US 6755169 B2 20040629

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EP 02014380 A 20020628; DE 10139435 A 20010810; DE 50208935 T 20020628; JP 2002231875 A 20020808; US 21417902 A 20020808