

Title (en)

INTAKE MANIFOLD WITH RINGED AIR TUBES FOR INTERNAL COMBUSTION ENGINES

Title (de)

SAUGROHRANLAGE MIT GERINGELTEN LUFTROHREN FÜR BRENNKRAFTMASCHINEN

Title (fr)

COLLECTEUR D'ADMISSION A TUBES D'AIR ANNELES, POUR MOTEUR A COMBUSTION INTERNE

Publication

**EP 0827567 B1 20000412 (FR)**

Application

**EP 96917521 A 19960520**

Priority

- FR 9600750 W 19960520
- FR 9506119 A 19950523

Abstract (en)

[origin: WO9637696A1] Between two half-shells (2, 3) molded and fixed to each other in order to form an envelope (1), there are mounted air tubes (12a) with a ringed external face (14) and a smooth internal face (13) which are fixed by means of end sleeves (17a, 18a) to the envelope (1). The outlet sleeve (18a) is held within a half-shell (3) by means of a fixing clamp (6) to the cylinder-head of the engine by being sealingly connected to an opening (7) of the clamp (6) for the supply of one cylinder by a tubular nozzle comprised of a cradle (29a) integrally cast with the clamp (6) and the half-shell (3), and a cover (31a) fixed to the cradle in order to hold a seal (28) to the extremity of the outlet sleeve (18a), the seal being compressed between the sleeve (18a) and the nozzle (29a, 31a). Application particularly to intake manifolds of internal combustion engines, preferably with controlled ignition.

IPC 1-7

**F02M 35/10**

IPC 8 full level

**F02M 35/10** (2006.01)

CPC (source: EP US)

**F02M 35/10039** (2013.01 - EP US); **F02M 35/10111** (2013.01 - EP US); **F02M 35/10321** (2013.01 - EP US); **F02M 35/10347** (2013.01 - EP US); **F02M 35/1036** (2013.01 - EP US); **F02M 35/112** (2013.01 - EP US); **F02M 35/10085** (2013.01 - EP US); **F02M 35/10216** (2013.01 - EP US); **F05C 2225/08** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES GB IT SE

DOCDB simple family (publication)

**WO 9637696 A1 19961128**; DE 69607752 D1 20000518; DE 69607752 T2 20001123; EP 0827567 A1 19980311; EP 0827567 B1 20000412; FR 2734603 A1 19961129; FR 2734603 B1 19970725; US 5964194 A 19991012

DOCDB simple family (application)

**FR 9600750 W 19960520**; DE 69607752 T 19960520; EP 96917521 A 19960520; FR 9506119 A 19950523; US 94531998 A 19980302