

Title (en)

AIR DUCT, ESPECIALLY FITTED IN THE AIR INTAKE SYSTEM OF AN INTERNAL COMBUSTION ENGINE

Title (de)

LUFTLEITUNG, INSBESONDERE IM ANSAUGTRAKT EINER BRENNKRAFTMASCHINE

Title (fr)

CONDUITE D'AIR PLACEE NOTAMMENT DANS LA ZONE D'ADMISSION D'UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1137874 A1 20011004 (DE)**

Application

**EP 99947393 A 19990921**

Priority

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- EP 9906975 W 19990921

Abstract (en)

[origin: US2002017275A1] An air duct for inclusion in the air intake tract of an internal combustion engine in which flow obstacles, especially wire-shaped flow obstacles, are arranged in the vicinity of the duct wall (21) in order to improve the acoustic characteristics of the duct. The flow obstacle may, for example, be wire strands (29). The flow obstacles are capable of decreasing the acoustic noise emitted by the air duct while maintaining a low flow resistance since the center part of the duct cross-section remains unaffected by the flow obstacles. The flow obstacles may advantageously be arranged in the discharge area of flap valves since so that the valves are prevented from whistling when they are only open a small way. In order to simplify the manufacturing and assembly costs, the flow obstacles may be disposed in the area of a flanged joint in the air intake duct.

IPC 1-7

**F02M 29/04**; **F02M 35/12**

IPC 8 full level

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CPC (source: EP US)

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