

Title (en)

Internal combustion engine with intake conduit made at least in part of plastics material

Title (de)

Brennkraftmaschine mit einem zumindest teilweise aus Kunststoff bestehenden Saugrohr

Title (fr)

Moteur à combustion interne avec conduit d'admission faite au moins partiellement en matière plastique

Publication

EP 0736682 A2 19961009 (DE)

Application

EP 96103104 A 19960301

Priority

DE 19508625 A 19950310

Abstract (en)

[origin: DE19508625C1] The engine has an electrically insulated throttle section (12) incorporated in the engine air intake (10), incorporating a throttle plate (14) operated via an electric motor (18). A charge dissipation device for the electrostatic charge at the plastics intake pipe is provided by a connection (26) between the housing of the throttle section and at least one terminal (22) of the electric motor. Pref. the electric motor has 2 terminals (20, 22) each electrically coupled via a high-ohmic resistance (28, 32) with the outer wall of the throttle section at its opposite ends.

Abstract (de)

Es wird vorgeschlagen, die sich im Bereich eines Kunststoffsaugrohrs einer Brennkraftmaschine bildenden elektrostatischen Aufladungen über eine geeignete Verbindung zwischen Drosselklappenstutzen und den Anschlüssen des Elektromotors für die Drosselklappe abzuleiten. <IMAGE>

IPC 1-7

F02M 35/10; **F02D 11/10**

IPC 8 full level

F02M 35/10 (2006.01); **F02D 9/02** (2006.01); **F02D 9/10** (2006.01); **F02D 11/10** (2006.01); **H05F 3/02** (2006.01)

CPC (source: EP US)

F02D 11/10 (2013.01 - EP US); **H05F 3/02** (2013.01 - EP); **F05C 2225/08** (2013.01 - EP US)

Cited by

DE102013224141A1; US7212388B2; WO03038257A1

Designated contracting state (EPC)

BE DE ES FR GB IT

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DE 19508625 C1 19960605; CN 1069380 C 20010808; CN 1135571 A 19961113; DE 59609202 D1 20020620; EP 0736682 A2 19961009; EP 0736682 A3 19971008; EP 0736682 B1 20020515; ES 2173218 T3 20021016; JP 3987134 B2 20071003; JP H08261020 A 19961008; US 5803430 A 19980908

DOCDB simple family (application)

DE 19508625 A 19950310; CN 96104315 A 19960119; DE 59609202 T 19960301; EP 96103104 A 19960301; ES 96103104 T 19960301; JP 4696296 A 19960305; US 61268896 A 19960308