

Title (en)

Apparatus and methods for separating particles from a fluid stream using an inertial effect.

Title (de)

Vorrichtung und Verfahren zum Abscheiden von Partikeln aus einem Fluidstrom mittels Trägheit.

Title (fr)

Dispositif et procédés pour séparer des particules d'un courant de fluide utilisant l'effet d'inertie.

Publication

EP 0204874 A1 19861217 (EN)

Application

EP 85304106 A 19850610

Priority

EP 85304106 A 19850610

Abstract (en)

To reduce the average size of fuel particles in the air-fuel mixture supplied to an internal combustion engine, particle separating means (11) are provided in the path of the air fuel mixture for removing oversize fuel particles which are then returned either to the carburetor or to the fuel supply system. The particle separating means (11) may comprise an array of elements each comprising a venturi-shaped housing (22) with a trap (24) aligned with, but disposed downstream of, the throat (23) of the tube, or an array of vortex tubes (41).

IPC 1-7

F02M 33/02; B01D 45/04; B01D 45/16

IPC 8 full level

F02M 33/04 (2006.01)

CPC (source: EP)

F02M 33/04 (2013.01)

Citation (search report)

- [X] GB 1214991 A 19701209 - STANDARD TRIUMPH MOTOR COMPANY
- [X] DE 2303712 A1 19730802 - MALHERBE ANDRE A
- [YD] US 3725271 A 19730403 - GIANNOTTI H
- [X] FR 2287588 A1 19760507 - ELF UNION [FR]
- [Y] US 3884658 A 19750520 - ROACH CHARLES J
- [A] FR 2311573 A1 19761217 - LUCAS INDUSTRIES LTD [GB]
- [A] US 4089665 A 19780516 - BROOKMAN DONALD

Cited by

GB2291119A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0204874 A1 19861217

DOCDB simple family (application)

EP 85304106 A 19850610