

Title (en)

DEVICE FOR REMOVING SOLID PARTICLES, ESPECIALLY SOOT PARTICLES, FROM INTERNAL-COMBUSTION ENGINE EXHAUST GASES

Publication

**EP 0310815 B1 19910724 (DE)**

Application

**EP 88114275 A 19880901**

Priority

DE 3734197 A 19871009

Abstract (en)

[origin: JPH01159409A] PURPOSE: To improve exhaust coefficient by, in a combustion chamber of a disposal device connected to a separator, interposing a filter between an inlet and an outlet so as to divide the combustion chamber into a pre-chamber and a after-chamber, burning a flame in the pre-chamber, and arranging the outlet in the after-chamber. CONSTITUTION: Exhaust gas of an internal combustion engine is delivered to a centrifugal separator 11 via an agglomerator 10. Further, the particle-free exhaust gas from one outlet 12 of the centrifugal separator 11 is supplied to a disposal device of the internal combustion engine through a gas line 21, whereas the exhaust gas from another outlet 13 of the separator 11 is supplied to a disposal device 14. The disposal device 14 comprises a combustion chamber 15 and a pilot burner 16. In this case, a filter 42 is interposed between an inlet 27 and an outlet 20 in the combustion chamber 15 so as to divide the interior of the combustion chamber 15 into a pre-chamber 18 and an after-chamber 19. Then, a flame burns into the pre-chamber 18 to execute combustion. The outlet 20 is arranged in the after-chamber 19.

IPC 1-7

**F01N 3/02**

IPC 8 full level

**F01N 3/02** (2006.01); **F01N 3/025** (2006.01)

CPC (source: EP US)

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