

Title (en)
IONIZATION STAGE AND COLLECTOR FOR AN EXHAUST GAS PURIFICATION SYSTEM

Title (de)
IONISIERUNGSSTUFE UND KOLLEKTOR EINER ABGASREINIGUNGSANLAGE

Title (fr)
ÉTAGE D'IONISATION ET COLLECTEUR POUR INSTALLATION D'ÉPURATION DE GAZ D'ÉCHAPPEMENT

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Application
EP 07846577 A 20071114

Priority
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Abstract (en)
[origin: DE102006055543B3] A first upstream conical casing, having a convex cross section, rests over its entire basal area, against the high voltage electrode. A second conical downstream casing with convex cross section, is placed against the high voltage electrode. A downstream conductive covering seals-off the shell electrode; this has a structure permitting gas flow. Downstream of the ionization stage (2), a collector (3) follows directly. This consists of filling bodies piled up on the nozzle plate over the open cross section only, to form filter elements. They are packed to permit gas flow. Around the edge of the nozzle plate a casing supports the filter elements. They are packed in a tower-like or conical configuration. The covering of a casing electrode is hat-shaped. It is a covering projecting over the open cross section of the gas purification plant. In the lowest regions of the nozzle plate, outlet holes are provided for particle laden fluid which collects on the downstream side of the plate. The nozzle plate is conical, the cone height being less than that of the casing electrode. The height of the second conical casing is less than or equal to the second smallest gap width between the star-shaped high voltage electrode and the associated casing electrode. In the collector, downstream of the filter elements (16) a waste gas purification plant is located, for scrubbing the gas flow. The gas flow axis and the fluid-spraying axis include an angle in the range 0[deg] - 180[deg]. The packing bodies are balls, rings or conical rings. They are made from sintered material, plastic or metal.

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