

Title (en)
ELECTROSTATIC SEPARATOR

Title (de)
ELEKTROABSCHEIDER

Title (fr)
SEPARATEUR ELECTROSTATIQUE

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Application
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Abstract (en)
[origin: DE10033642C1] The invention relates to an electrostatic separator, for the separation of fluid or solid particles from a gas stream. Said electrostatic separator comprises a tube (1), through which the gas for purification flows in a longitudinal direction, the inner wall (1A) of which forms a collector electrode for the particles to be separated out. An inner electrode (2) is arranged running longitudinally in the middle of the tube (1) and an electrical high voltage field exists between said inner electrode and the collector electrode. The inlet end of the inner electrode (2) comprises a first section (2A), with a low cross-sectional area and the outlet end comprises a second section (2B), with a larger cross-sectional area, relative to the first. The first section thus essentially serves for the formation of a corona and the second section serves to generate an electrostatic separating field. A cleaning body (3) is provided for cleaning the section of the inner electrode forming the corona, which, in order to clean said inner section of the inner electrode forming the corona, moves relative thereto and in physical contact therewith. Furthermore, the operating element (4) for carrying out said relative movement is located in a space-saving manner within the inner electrode (2) which has a hollow form.

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