

## ELECTROSTATIC PARTICLE FILTRATION

ABSTRACT

An on board electrostatic filter for a vacuum cleaner is disclosed. The filter includes a pair of conductive filaments (150, 152; 220, 222, 224, 226) insulated from one another and disposed close together in a substantially parallel, side-by-side relationship. Means (164) is provided for applying an electrical difference between the two conductors. This dual filament conductor is preferably packed into a relatively small volume in a tortuous configuration, to form a random mesh, or can be oriented in a more regular serpentine configuration. Other embodiments describe the mesh electrostatic filter to purify air in an HVAC system.

(figure 11)

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