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(54) **DECONTAMINATION PROCEDURE USING A BIOFILTER TO RETAIN AND RECYCLE PARTICULATE MATTER FROM COMBUSTION FUMES**

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(57) **ABSTRACT**

A fume decontamination system connected to any combustion system which comprises seven devices interconnected sequentially in the following manner: an extraction device is first connected to the combustion system and then connected by the other end to a guiding device which, in turn, is connected to a cooling device. Once cooled, the combustion gases are channeled to a suction device in which the gases are driven under pressure to an induction device which, in turn, concentrates the gases and directs same to the injection plenum, the concentrated, cooled gases being distributed at constant volumes to the entire biological plant filtering device and its decontamination procedure.

12 Claims, 13 Drawing Sheets

