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(54) Title: ELECTROSTATIC PRECIPITATOR

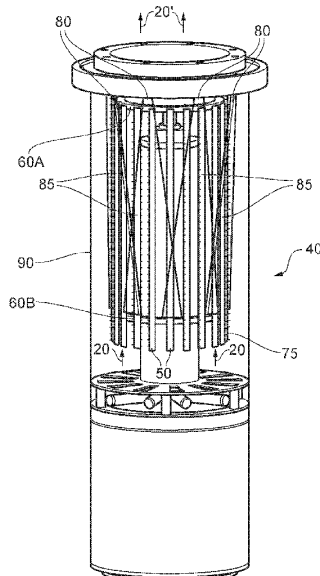


FIG. 1

(57) Abstract: An electrostatic precipitator and method are disclosed. The electrostatic precipitator comprises: a chamber having an inlet configured to receive an effluent stream for treatment and an outlet configured to convey a treated effluent stream; and an electrode structure housed within the chamber, the electrode structure being operable to generate a corona for treating the effluent stream to produce the treated effluent stream, wherein the electrode structure comprises at least one comb structure having a shaft and a plurality of teeth extending from the shaft, the corona being generated at a free tip of each tooth in response to a voltage when applied across the electrode structure and the chamber. In this way, electrode teeth are provided which provide for a reduced area from which the corona is generated, thereby improving the corona, but also the reduced size of the electrode teeth compared to existing electrode structures provides a reduced area for the accumulation of particulates and facilitates the shedding of those particulates from the electrodes, which improves the performance of the electrostatic precipitator.