

ABSTRACT OF THE DISCLOSURE

The disclosed invention is an electric dust-collection unit including needle electrodes 27 for the purpose of charging particulates within the air by causing corona discharges around their tips 291, collector cells (collector electrodes) 40 arranged in tubular shape corresponding to the needle electrodes 27 for the purpose of attracting and collecting the charged particulates by means of static electricity, and deflecting electrodes 28 which
10 are arranged in such a way as to be inserted within the collector cells 40 for the purpose of imparting a deflecting force on the charged particles in the direction of the collector cells 40, the deflecting electrodes 28 being configured in the form of a hollow column including a forward plate section (301, 311) having a mounting hole (ha, hb) for the purpose of fitting and retaining the needle electrode 27, and side plate sections (302, 303, 312, 313) facing the collector cell at a prescribed distance, while the needle electrodes 27 are fixed on to the forward plate sections (301, 302) of the deflecting electrodes 40 in such a way that their
20 tips protrude from the surface of the forward plate sections (301, 311), while their bodies 292 are inserted firmly in the mounting hole (ha, hb).

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