

ABSTRACT

The present invention relates to a DC type ionizer comprising a positive electrode 13P and a negative electrode 13N, an alternating current
5 power supply 10, a rectifying and smoothing circuit 11, and high voltage generation circuits 12P and 12N that apply a high direct current constant voltage of positive polarity to the positive electrode 13P and apply a high direct current constant voltage of negative polarity to the negative electrode 13N, respectively, and a fan 14 that sends positive and negative ions generated by
10 corona discharge around each of the electrodes 13P and 13N, in the direction of a target of static electricity removal. Each of the electrodes 13P and 13N is arranged behind the fan 14 and ion number sensors 15P and 15N are arranged at positions ahead of the fan 14 and corresponding to the electrodes 13P and 13N, and the positive ions and the negative ions are caused to arrive
15 intermittently at the corresponding ion number sensors 15P and 15N by the rotation of the fan 14 and ion currents corresponding to the numbers of positive and negative ions are detected, respectively. Due to this, a function of monitoring the number of generated ions is realized with a simple configuration and a DC type ionizer that facilitates ion balance control and generation of an
20 electrode cleaning alarm is realized.



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