

ABSTRACT

An ion generating device generates $O_2^-(H_2O)_n$ (where n is a natural number) as negative ions and $H^+(H_2O)_m$ (where m is a natural number) as positive ions, and discharges those ions into the air so that airborne germs are killed through an oxidation reaction by
5 hydrogen peroxide H_2O_2 or radical hydroxyl OH generated through as an active species a chemical reaction between the negative and positive ions. Satisfactory sterilization is achieved when the negative and positive ions are generated in such a way that the concentrations of the negative and positive ions are both 10,000 ion/cc at a distance of 10 cm from the point at which they are generated.



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