Claims

Claim 1

An ion generating device comprising:

a positive electrode which generates positive ions;

a negative electrode which generates negative ions;

a transformer which outputs a high alternating-current voltage;

a first diode which rectifies the high alternating-current voltage and applies a voltage thus rectified to the positive electrode; and

a second diode which rectifies the high alternating-current voltage and applying a voltage thus rectified to the negative electrode,

the first diode and the second diode being connected, on a substrate, to an output terminal of the transformer via a conductive body,

the conductive body being formed in a region where the conductive body causes neither a decrease in strength of an electric field formed by the positive electrode nor a decrease in strength of an electric field formed by the negative electrode.

Claim 2

The ion generating device as set forth in claim 1, wherein:

the first diode and the second diode are provided so as to incline with respect to a straight line connecting between the positive electrode and the negative electrode.

Claim 3

The ion generating device as set forth in claim 1, wherein:

at least one of the first diode and the second diode is provided so as to be perpendicular to a straight line connecting between the positive electrode and the negative electrode.

Claim 4

The ion generating device as set forth in claim 1, wherein:

the substrate is provided so as to be perpendicular to or incline with respect to a surface on which the positive electrode and the negative electrode are mounted.

Claim 5

The ion generating device as set forth in any one of claims 1 to 4, further comprising:

a housing on which the positive electrode, the negative electrode, the transformer, the first diode, and the second diode are mounted,

the housing being provided with a step on each of two side surfaces of the housing which side surfaces are opposed to each other.

Claim 6

The ion generating device as set forth in claim 5, wherein:

the housing includes (i) a main body on which the positive electrode and the negative electrode are mounted, (ii) a connector to which a power source for applying voltage to the positive electrode and the negative electrode is connected, and (iii) a power source specification identification section which allows for identification of a power source specification of the ion generating device.

Claim 7

The ion generating device as set forth in claim 6, wherein:

the power source specification identification section is the connector which is formed into a shape associated with the power source specification.

Claim 8

The ion generating device as set forth in claim 6, wherein:

the power source specification identification section is an interval between two pins which are provided in the connector so as to be spaced apart from each other by a distance associated with the power source specification.

Claim 9

The ion generating device as set forth in claim 6, wherein:

the power source specification identification section is a display associated with the power source specification.

Claim 10

The ion generating device as set forth in claim 6, wherein:

the power source specification identification section is a projection which has a shape associated with the power source specification, which is provided at a position associated with the power source specification, or which has a shape associated with the power source specification and also is provided at a position associated with the power source specification, the projection being provided in the connector.

Claim 11

The ion generating device as set forth in any one of claims 6 to 10, wherein:

the housing is provided with a step on each of two side surfaces of the housing which side surfaces are opposed to each other.