CLAIMS:

[Claim 1] A sterilization case comprising:

a case main body having a loading part with a surface on which an electrode sheet is laid, the electrode sheet being formed by housing at least one of a pair of electrodes within a sheet-like dielectric, and in which a mobile communication device can be loaded on the electrode sheet, and a voltage supplying part supplying a predetermined voltage to the electrode sheet and the mobile communication device; and

a cover body attached to the case main body in an openable and closable manner, wherein

the voltage supplying part comprises:

a first circuit of converting a power source into a voltage, the first circuit supplying the voltage to the pair of electrodes so that ozone is generated through the at least one of the pair of electrodes; and

a second circuit of converting the power source into a power source voltage of the mobile communication device, the second circuit supplying the power source voltage to a male connector connectable to a female connector of power supply to the mobile communication device.

[Claim 2] The sterilization case according to claim 1, wherein

another electrode sheet separate from the electrode

sheet is provided on an inner surface of a top wall of the cover body, and wherein

the first circuit is connected also to electrodes of the another separate electrode sheet.

[Claim 3] The sterilization case according to claim 1, wherein

a spacer for loading the mobile communication device is provided in a manner protruding on the electrode sheet on the loading part.

[Claim 4] The sterilization case according to claim 1, wherein

the loading part is formed to have a waved cross-sectional shape and the electrode sheet is laid along the waved loading part.

[Claim 5] The sterilization case according to claim 1, wherein

the power source is an alternate-current power source, and wherein

the first circuit is a circuit for converting the alternate-current voltage of the power source into an alternate-current voltage or a pulsed voltage of a desired value and supplying the voltage to the pair of electrodes, and wherein

the second circuit is a circuit for converting the alternate-current voltage of the power source into a

direct-current voltage of a desired value and supplying the voltage to the male connector.

[Claim 6] The sterilization case according to claim 1, wherein

the power source is a direct-current power source, and wherein

the first circuit is a circuit for converting the direct-current voltage of the power source into an alternate-current voltage or a pulsed voltage of a desired value and supplying the voltage to the pair of electrodes, and wherein

the second circuit is a circuit for converting the direct-current voltage of the power source into a direct-current voltage of a desired value and supplying the voltage to the male connector.

[Claim 7] The sterilization case according to claim 6, wherein

the second circuit is a circuit for supplying the direct-current voltage of the power source directly to the male connector.

[Claim 8] The sterilization case according to claim 1, wherein

at least the dielectric of the electrode sheet is formed of polymeric resin.

[Claim 9] The sterilization case according to claim 1, wherein

a switch mechanism is provided on the case main body, the switch mechanism being capable of turning on the power source only when the cover body is closed and turning off the power source after a predetermined period of sterilization time with the power source on.

[Claim 10] The sterilization case according to claim 1, wherein

a sterilization meter for displaying sterilization processing time is provided on the case main body.

[Claim 11] The sterilization case according to claim 1, wherein

each of the pair of electrodes is formed in a comb shape and comb teeth of the pair of electrodes are engaged with each other at a regular interval.

[Claim 12] The sterilization case according to claim 1, wherein

one of the pair of electrodes is housed within the dielectric and another electrode with a number of holes or in a comb shape is disposed on a surface of the dielectric in a manner opposed to the one electrode.

[Claim 13] The sterilization case according to claim 1, wherein

the loading part is provided with a maintaining part for maintaining a distance between the electrode sheet and the mobile communication device or a case of the mobile communication device loaded on the loading part within a range of 10 mm or less.