the treatment space strongly feels the fragrant smell of the chemical agent particles, and particularly, a consumer who does not like strong fragrant smells is likely to have an unpleasant feeling.

[0006]

With the above problem in mind, the present invention has been made. It is an object of the present invention to provide a deodorizing aerosol that can exert a highly fast-acting and long-lasting deodorizing effect in a treatment space, such as a toilet room.

SOLUTION TO PROBLEM

[0007]

A deodorizing aerosol according to the present invention for achieving the above object is characterized by comprising: a pressure-resistant container equipped with a metering spray valve, the container containing a liquid aerosol-forming material including a deodorizing component and an organic solvent, and a propellant; and a spray button having a spray outlet connected to the metering spray valve. The deodorizing aerosol is adjusted so that the spray volume by pushing the spray button once is 0.2-0.4 mL, and the spray force of the liquid aerosol-forming material sprayed by pushing the spray button once is 0.3-10.0 g·f as measured at a distance of 20 cm from the spray outlet at 25°C.

[0008]

In toilet rooms, not only floating in the air of the treatment space are unpleasant odors, but also unpleasant odors are continuously generated from odor sources such as urine scattered and sticking to the wall surface, floor surface, etc. The present inventors have conceived that a deodorizing effect on odors in a toilet room can be improved by enhancing a deodorizing effect on odors generated from odor sources sticking to the wall surface, etc. With this in mind, the deodorizing aerosol of the present invention is configured so that 50 vol% or more of the liquid aerosol-forming material sprayed into the treatment space forms adhesive particles. The adhesive particles are a portion of the sprayed particles formed by spraying the liquid aerosol-forming material from the deodorizing aerosol into a treatment space of 2.5-3.5 m^3 that adhere to an exposed portion (e.g., the floor surface, wall surface, and the like of a toilet space, and the surfaces of objects such as a toilet) of the treatment space in 60 minutes after spraying. Therefore, both an odor generated from an odor source sticking to an exposed portion and an odor floating in the air of the treatment space can be effectively eliminated, whereby the deodorizing effect on the entire

respective roles to exert the effect of the deodorizing component to the extent possible.

[0013]

In the deodorizing aerosol of the present invention, the organic solvent is preferably at least one selected from the group consisting of fatty acid esters having a total of 16-20 carbon atoms and alcohols.

[0014]

According to the deodorizing aerosol having this feature, a higher fatty acid ester or an alcohol is used as the organic solvent so that the effect of each component can be efficiently exerted. In addition, when the liquid aerosol-forming material is sprayed, well-balanced adhesive particles and suspendable particles can be formed, resulting in a stable deodorizing effect.

[0015]

In the deodorizing aerosol of the present invention, the deodorizing component preferably includes a plant extract and a harmonized fragrance.

[0016]

According to the deodorizing aerosol having this feature, an odor such as a urine or feces odor in a toilet room is harmonized with the harmonized fragrance, whereby the unpleasant odor can be perceived as a pleasant smell, i.e. a sensory deodorizing effect can be obtained.

[0017]

In the deodorizing aerosol of the present invention, the

CLAIMS

1. A deodorizing aerosol comprising:

a pressure-resistant container equipped with a metering spray valve, the container containing a liquid aerosol-forming material including a deodorizing component and an organic solvent, and a propellant; and

a spray button having a spray outlet connected to the metering spray valve,

wherein

the deodorizing aerosol is adjusted so that the spray volume by pushing the spray button once is 0.2-0.4 mL, and the spray force of the liquid aerosol-forming material sprayed by pushing the spray button once is 0.3-10.0 g·f as measured at a distance of 20 cm from the spray outlet at 25°C.

2. The deodorizing aerosol of claim 1, wherein

the sprayed particles formed by pushing the spray button and thereby spraying the liquid aerosol-forming material in the pressure-resistant container, have a particle size of 40-60 μm as measured at a distance of 15 cm from the spray outlet at 25°C, where the particle size is a d90 particle size in a cumulative volume distribution of the sprayed particles.

3. The deodorizing aerosol of claim 1 or 2, wherein

the volume ratio (a/b) of the liquid aerosol-forming material (a) to the propellant (b) contained in the pressure-resistant container is 10/90-50/50.

4. The deodorizing aerosol of any one of claims 1-3, wherein

the organic solvent is at least one selected from the group consisting of fatty acid esters having a total of 16-20 carbon atoms and alcohols.

5. The deodorizing aerosol of any one of claims 1-4, wherein

the deodorizing component includes a plant extract and a harmonized fragrance.

6. The deodorizing aerosol of any one of claims 1-5, wherein

the spray outlet has an inner diameter of 0.2-1.0 mm.

7. The deodorizing aerosol of any one of claims 1-6, wherein

the liquid aerosol-forming material further includes leaf alcohol and/or leaf aldehyde.

8. The deodorizing aerosol of any one of claims 1-7, wherein

the sprayed liquid aerosol-forming material is diffused throughout the treatment space in 120 seconds or less.

9. The deodorizing aerosol of any one of claims 1-8, wherein

the concentration of the liquid aerosol-forming material in the air reaches 0.0007 ppm or more in 95% or more of the treatment space, in 120 seconds or less after spraying.

10. The deodorizing aerosol of any one of claims 1-9, wherein

the treatment space is a toilet room.