

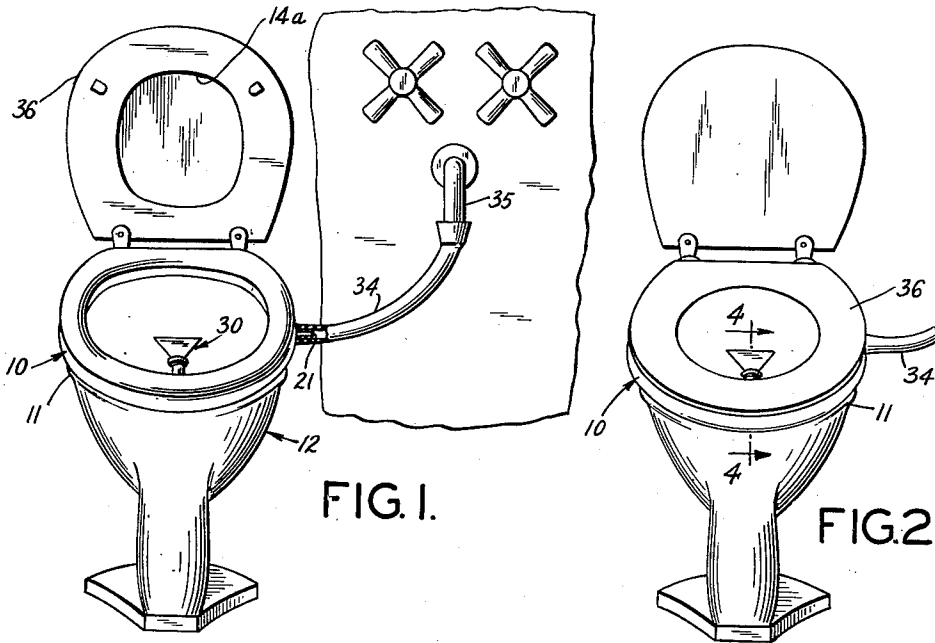
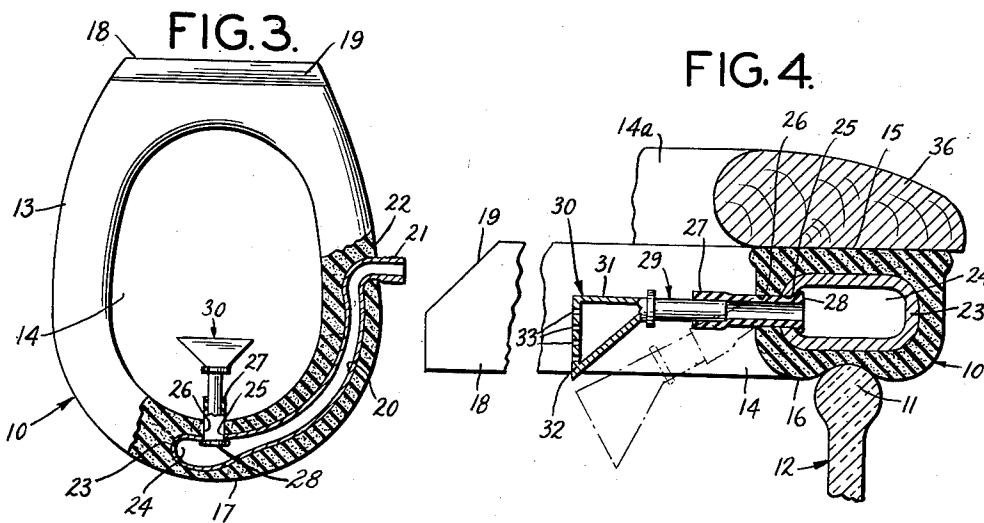
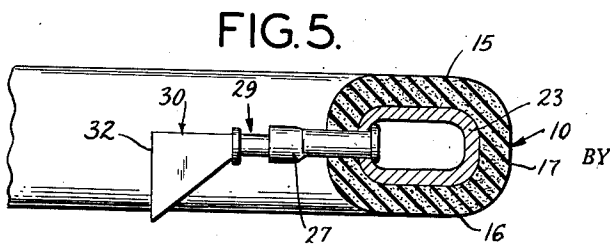
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HYGIENIC SPRAY ATTACHMENT

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HYGIENIC SPRAY ATTACHMENT

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9 Claims. (Cl. 4-6)

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This invention relates to hygienic sprays, more particularly to a spray device for personal use associated with a toilet bowl and seat.

It is primarily within the contemplation of this invention to provide a spray which is effective for rectal cleansing and for relieving hemorrhoidal, prickly heat and other irritations requiring bathing forms of treatment. And in this aspect of my invention it is an object to obviate the use of bathtubs or basins for such purposes, or the employment of shower or spray devices which soil the floor, or the use of other expedients which require wetting or immersing parts of the body other than the rectal portion requiring cleansing. And in this connection it is a further object to localize the spray to the region requiring it, thereby enabling treatments for persons having colds or otherwise unable to subject large areas of the body to bathing or other wetting treatments.

It is another object of my invention to provide a toilet bowl pad containing a spray member so disposed with respect to the bowl and seat that the spray will be confined within the bowl and will not leak out therebeyond. And in this aspect of my invention it is an object to enable the weight of a person disposed on the seat to effect a fully sealed peripheral closure about the bowl.

Still another object of my invention is to provide a spray, in a device of the aforementioned category, which is normally directed downwardly away from the body of the person on the seat, whereby water temperatures and pressures may be regulated before the spray is directed upon the body. And another object is to enable ready manual manipulation of the spray to secure the desired direction thereof.

Another object of my invention is to enable the spray device to be conveniently connected to a suitable faucet or water outlet, and further to enable it to be reversibly positioned for use with faucets on either side of the bowl.

And it is within my contemplation to provide a single and inexpensive unitary device having the features and advantages aforesaid.

Other objects, features and advantages will appear from the drawings and the description hereinafter given.

Referring to the drawings,

Figure 1 is a front perspective view of a preferred form of my invention operatively placed upon a toilet bowl rim, the seat being open, the device being connected to a faucet, a fragment being broken away for clarity.

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Figure 2 is a view substantially like Figure 1, but showing the seat in closed position.

Figure 3 is a somewhat enlarged plan view, partly in section, of the pad portion of my device with sprayer member attached.

Figure 4 is an enlarged fragmentary section of Figure 2 taken substantially along line 4-4 thereof, the dot-dash lines representing the normally lowered position of the spray member, and

Figure 5 is a fragmentary section substantially like Figure 4, with the device not in engagement with the toilet seat and bowl.

In the preferred form of my invention illustrated, the pad member 10 thereof is employed for placement upon the rim 11 of the toilet bowl 12 as shown. Said pad 10 is made of soft yieldable material, such as sponge rubber, and comprises a peripheral portion 13 enclosing the central aperture 14, the said peripheral portion preferably having somewhat flattened upper and lower surfaces 15 and 16 (Figure 5), and being proportioned in accordance with the generally elliptical configuration of conventional toilet bowl rims. It is also preferred that the front portion 17 of the pad be of generally rounded configuration, and that the rear portion 18 be provided with a downwardly and rearwardly sloping wall 19, thereby providing a wedge-shaped construction which will not interfere with the closing of the seat.

Disposed within one side of the body of pad 10 is the tube 20 made of rigid material such as hard plastic or metal. Said tube is provided with an inlet portion 21 which preferably extends laterally outwardly from substantially the mid-portion of side 22 of the pad, and is adapted to receive thereover a flexible hose, as will more clearly hereinafter appear. The said tube 20 extends from portion 21 along a curved path following generally the contour of the side and front of the pad, and terminates in an enlarged portion 23 forming the chamber 24 at the front of the pad. The inner side of portion 23 of the tube contains an aperture 25 in registry with aperture 26 in the inner portion of the front of the pad 10, it being preferred that said apertures 25 and 26 be centrally disposed with respect to the lateral sides of the pad. A rubber tubular fitting 27 extends through said apertures 25 and 26, said fitting containing an expanded head 28 in engagement with the inner surface of wall 23 whereby it is held from detachment, the fitting being force-fitted into apertures 25 and 26 for firm engagement with the walls of said apertures. Extending into the rear portion of tube 27 is the

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spray member 29 containing a spray head 30 the upper wall 31 of which is preferably flat, the rearmost downwardly extending wall 32 containing therein spray perforations 33.

In the operative use of this device, the pad 10 is placed over the rim 11, as aforesaid, and the inlet portion 21 is connected to hose 34 which is attached to faucet 35. When the seat 36 is closed upon the pad 10, as shown in Figures 2 and 4, and a person seated thereupon, the soft material of the pad is compressed in the region of rim 11 and seat 36, thereby providing a firm seal around the periphery of the pad. Since the rubber tubing 27 is flexible, the spray member 29 will normally assume the position shown by the dot-dash lines of Figure 4, since it will sag downwardly under its own weight and that of the spray member. In this position, it is obvious that any spray from the member 29 will be directed downwardly, out of engagement with the seated person's body. With this arrangement, the person could, before using the device, regulate the temperature and pressure of the water for comfort, inserting the hand through aperture 14a of the seat and 14 of the pad to test the condition of the water. Thereafter the spray member 29 is manually lifted to the desired position, and maintained in such position until the cleansing treatment has been completed.

Due to the aforesaid seal between the seat, the pad and the rim of the bowl, there can be no leakage of the water emitted from the spray; and since the body is positioned over the aperture 14a, there can be no leakage therethrough, particularly since the seated person can properly control the position of the spray member 29.

It should also be observed that since the pad 10 has symmetrical upper and lower surfaces, it can readily be reversed so as to bring the outlet portion 21 on the side opposite to that shown, if the faucet 35 happens to be located on said opposite side. All that need be done thereafter is to rotatably manipulate the spray member 29 so that the wall 31 will be on top. This feature of reversibility gives it universal use. Also, since the inlet portion 21 is disposed at a lateral side of the pad, it will not interfere with the comfort of a seated person.

In the above description, the invention has been disclosed merely by way of example and in preferred manner; but obviously many variations and modifications may be made therein which will still be comprised within its spirit. It is to be understood, therefore, that the invention is not limited to any specific form or manner of practicing same, except insofar as such limitations are specified in the appended claims.

I claim:

1. In a spray device of the class described, a resilient pad member comprising a peripheral portion entirely enclosing a central aperture, whereby it is adapted for positioning upon the rim of a toilet bowl, a rigid tube disposed within the body of the peripheral portion and having an inlet portion and an outlet aperture, and a spray member communicating with said outlet aperture and having a spray head disposed within said central aperture of the pad member.

2. In a spray device of the class described, a pad member of resilient material and comprising a peripheral portion entirely enclosing a central aperture, whereby it is adapted for positioning upon the rim of a toilet bowl, a rigid tube disposed within the body of the peripheral portion and having an inlet portion and an outlet aperture,

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a tubular fitting connected to said outlet aperture and extending into the said central aperture of the pad member, and a spray member connected to said fitting, the fitting being of stiff flexible material, whereby the spray member will in its normal unsupported condition sag downwardly under its own weight.

3. In a spray device of the class described, a pad member comprising a peripheral portion entirely enclosing a central aperture, whereby it is adapted for positioning upon the rim of a toilet bowl, a tube disposed within one side of the body of the peripheral portion and having an inlet portion extending laterally outwardly from the side of the pad, the tube extending from said inlet portion along a curved path following generally the contour of the side and front of the pad, said tube having an outlet portion at the inner front of the pad, and a spray member communicating with said outlet aperture and having a spray head disposed within said central aperture of the pad member.

4. In a spray device of the class described, a pad member comprising a peripheral portion enclosing a central aperture, whereby it is adapted for positioning upon the rim of a toilet bowl, a tube disposed within one side of the body of the peripheral portion and having an inlet portion extending laterally outwardly from the side of the pad, the tube extending from said inlet portion along a curved path following generally the contour of the side and front of the pad, the tube terminating in an enlarged portion forming a chamber at the front of the pad, and a spray member communicating with said chamber and having a spray head disposed generally within the said central aperture of the pad member.

5. In a spray device, the combination according to claim 4, the pad member being of resilient material with generally flattened upper and lower surfaces, the tube being of rigid material.

6. In a spray device of the class described, a pad member comprising a peripheral portion enclosing a central aperture, whereby it is adapted for positioning upon the rim of a toilet bowl, the pad being of resilient material and having in the front wall thereof an inner aperture communicating with the said central aperture, a rigid tube disposed within one side of the body of the peripheral portion and having an inlet portion extending laterally outwardly from the side of the pad, the tube extending from said inlet portion along a curved path following generally the contour of the side and front of the pad, said tube having an outlet portion at the front of the pad in registry with said inner aperture, a tubular fitting connected to said apertures in registry and extending into the central aperture of the pad, and a spray member connected to said fitting, the fitting being of semi-rigid flexible material whereby the spray member will in its normal unsupported condition sag downwardly under its own weight, the spray member having a spray head with a substantially vertical wall with spray perforations therein.

7. In a spray device, the combination according to claim 6, the upper wall of the spray head being substantially at the upper level of the said fitting.

8. In a spray device, the combination according to claim 6, the upper wall of the spray head being substantially flat.

9. The combination of a spray device, toilet bowl and toilet seat, the spray device comprising a resilient pad member with a peripheral

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portion entirely enclosing a central aperture and disposed over the rim of the bowl, a rigid tube disposed within the body of the peripheral portion and having an inlet portion and an outlet aperture, and a spray member communicating with said outlet aperture and having a spray head disposed within said central aperture of the pad member, the seat being adapted for positioning over the said pad member, whereby a peripheral seal will be effected between the pad member, the bowl rim and seat by the weight of the seat and a person thereon.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
779,164	Jamison -----	Jan. 3, 1905
1,835,497	Kahn -----	Dec. 8, 1931
2,104,210	Salvoni -----	Jan. 4, 1938

OTHER REFERENCES

"Cross-Connections in Plumbing Systems,"
U. S. Department of Commerce, National Bureau
of Standards Research Paper RP1086, April 1938.