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O. R. WALLACE
SANITARY TOILET APPLIANCE
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Fig. 1

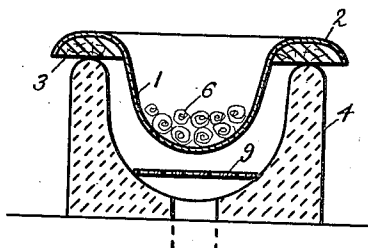


Fig. 2

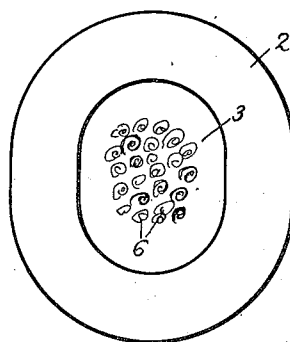


Fig. 3

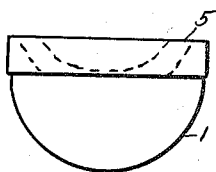


Fig. 4



Fig. 6

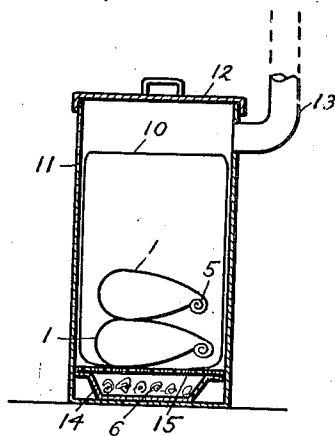
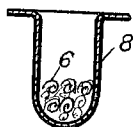


Fig. 5



Fig. 7



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SANITARY TOILET APPLIANCE

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1 Claim. (Cl. 4—142)

My invention relates to toilet appliances and has particular reference to flexible containers for refuse and excrements.

The sewerage systems in our cities represent an ever increasing source of pollution of the nearby rivers and sea or lake shores and, consequently, always a potential source of the spread of diseases. The worst pollution is caused by excrements and other solid refuse. The problem of the garbage removal, on the other hand, has been generally satisfactorily solved, so that the garbage does not now contribute in the slightest degree to the pollution of city waters.

I have found, however, that it is possible to devise sanitary means for collecting excrements and similar objectionable refuse and to deliver the thus collected and gathered refuse to ordinary garbage incinerators or similar garbage destroying means.

The object of my invention is, therefore, to provide sanitary containers for excrements to be used in place of ordinary flushing toilet bowls, these containers being made of some flexible material, preferably paper, rendered impervious to liquids.

Another object of my invention is to provide absorbing material in these containers for liquid portions of the excrements and refuse, thereby facilitating the handling of the used containers, preventing spilling of the liquids, and inhibiting the otherwise possible decay.

Another object of my invention is to provide means for effectively closing the containers after they have been in use.

Still another object of my invention is to provide means for storing several used containers in sanitary closed vessels, provided if necessary with vents to the outside air.

My invention is more fully described in the accompanying specification and drawing in which—

Fig. 1 is a sectional elevation of my appliance or container placed on an ordinary toilet seat, Fig. 2 is a top plan view of the same, Fig. 3 is a side view of my container in a closed position, Fig. 4 is a sectional view of the closed container, Fig. 5 is a modified arrangement for closing the container, Fig. 6 is a sectional elevation of a sanitary vessel for temporarily storing used containers, and Fig. 7 is a modified form of the container.

My appliance or container consists of a pot 1 made of a cheap flexible material, preferably paper, sized or impregnated so as to render it waterproof. It is provided with a substantially convex flange 2 adapted to fit the upper side of a toilet seat 3 on a bowl 4. The flange is made to

completely cover the seat thereby rendering sanitary protection to a user of the appliance.

The pot 1 is partly filled with a loose or fluffy liquid absorbing material 6, preferably cotton waste, although other similar materials may be used, including sawdust, dried tree leaves, paper, etc.

The material of the pot is sufficiently flexible to permit folding of the pot after its use as shown in Figs. 3 and 4. The upper edges are then rolled together forming a substantially cylindrical seal 5, the material of the pot being non-resilient and thereby retaining its shape in the rolled condition. Paper treated with paraffin or wax, for instance, possesses the requisite properties of non-resiliency, flexibility and being impervious to liquids.

Instead of folding the edges of the container 1 it may be sealed by a separate flat piece of paper or similar material 7 as shown in Fig. 5, the under side of this covering paper being rendered adhesive. Such covers may be kept until needed by placing each pair of sheets together by their adhesive sides and separating them for use.

Another modification is shown in Fig. 7 representing a urinal 8 which can be also folded on top after use and then removed with the garbage to be incinerated or otherwise destroyed.

In order to prevent an ordinary use of the bowl 4, a perforated drain cover 9 is placed at its bottom so as to admit only a liquid refuse.

The used and folded containers or pots 1 may be kept in a paper bag 10 placed in a special receptacle or vessel 11 provided with a cover 12. A vent pipe 13 extends from the side of the receptacle 11 to the roof of a building or is connected with a chimney or other similar outlet. A drip pan 14 is placed at the bottom of the receptacle in order to collect any possible drippings from the containers 1, a perforated plate 15 being placed over the pan 14 for supporting the paper bag 10. From time to time the bag 10 with the containers may be removed and placed in an incinerator or removed with the garbage.

Important advantages of my containers are that they eliminate the necessity of using large sewers, provide means for sanitary removing of excrements and similar objectionable refuse, thereby terminating the pollution of rivers and sea shore near cities.

My containers can be used to advantage not only in private and public houses, but also on boats, airplanes, trains, automobiles, in isolated residences, farms etc.

The absorbent material 6 effectively separates

solid substances from liquids, thereby preventing their decay and formation of noxious gases. The absorbent material may be also treated with suitable chemicals and antiseptics.

- 5 My containers, when adapted for use in a house, will lead to a large saving in water consumption due to the elimination of flushing the toilets.

I claim as my invention:

In a toilet appliance consisting of a flexible pot made of a sheet of paper impregnated with water-proofing substances and having a flange adapted to fit the upper side of a toilet seat, said pot being adapted to hold a quantity of liquid absorbing 5 material, said flange being adapted to be rolled into a cylinder thereby sealing said pot after use.

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