

March 13, 1945.

A. GRAUE

2,371,390

SANITARY MEDIUM

Filed May 12, 1941

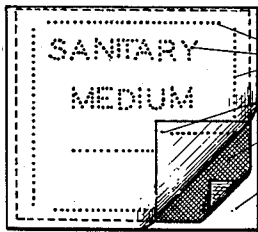


FIG. 1.

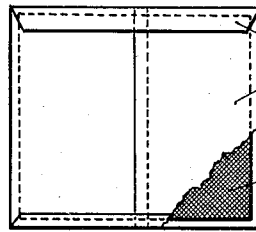


FIG. 2.

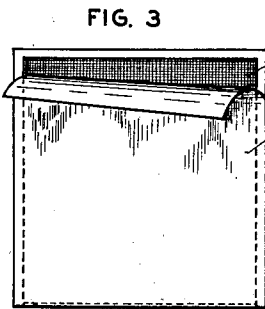


FIG. 3

FIG. 4

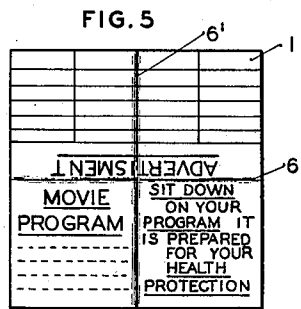
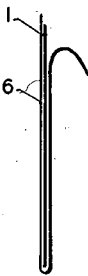


FIG. 5

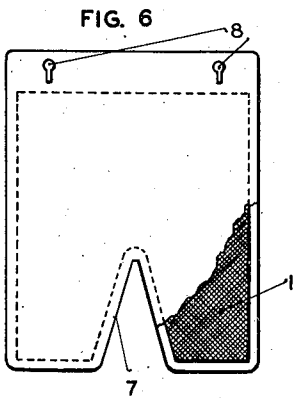


FIG. 6

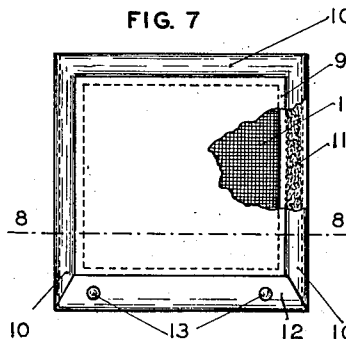


FIG. 7

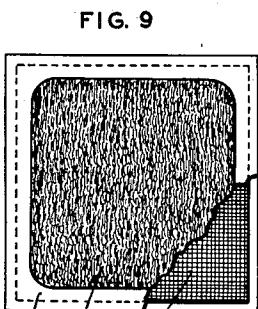


FIG. 9

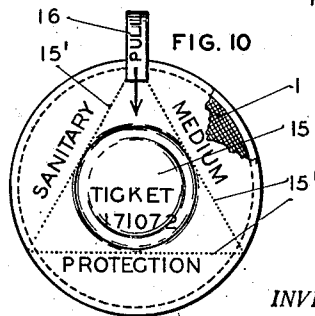


FIG. 10

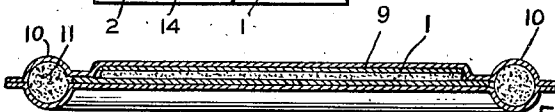


FIG. 8.

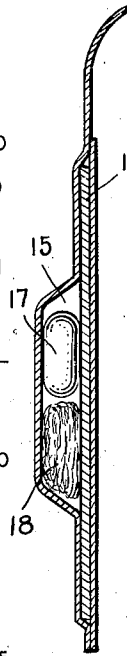


FIG. 11.

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SANITARY MEDIUM

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2 Claims. (Cl. 21-61)

The present invention relates to improvements in a sanitary medium and apparatus for making the same, and its principal object is to improve sanitary conditions in public assemblies, especially in motion picture theatres, through the employment of sanitary elements adapted to protect those parts of the human body particularly exposed to attack by micro-organisms, vermin and the like.

More particularly it is proposed to provide a sanitary medium that is in the form of a sheet impregnated with organic or inorganic chemicals, of antiseptic, disinfectant or insecticide nature and adapted to be interposed between the chair seat and the body of a person so as to protect the latter.

It is further proposed to provide various forms of such sanitary media which allow the latter to be used, either alone, for the sole purpose of sanitation or to be used for various additional purposes, as, for instance, carriers for printed matter, programs, advertising, or as tickets, or as containers for additional sanitary objects.

Further objects and advantages of my invention will appear as the specification proceeds and the novel features thereof will be fully set forth in the claims hereto appended.

The preferred forms of my invention are illustrated in the accompanying drawing in which: Figure 1 shows a plan view of my sanitary medium, certain portions being bent over to show interior construction;

Figure 2, a similar view of a modified form of my invention;

Figure 3, a similar view of a further modified form;

Figure 4, a vertical section through the latter form;

Figures 5, 6, and 7, plan views of further modifications, with parts broken away in the two latter figures;

Figure 8, a horizontal section through the form of Figure 7, taken along line 8-8 thereof;

Figures 9 and 10, plan views, with parts broken away, of still further modifications of my invention; and

Figure 11, a vertical section through the form shown in Figure 10.

While I have shown only the preferred forms of my invention, I wish to have it understood that various changes or modifications may be made within the scope of the claims hereto attached without departing from the spirit of the invention.

Referring to the drawing in detail, and par-

ticularly to the form shown in Figure 1, my invention comprises a sanitary medium 1 confined between the covers 2 and 3 which are preferably sealed along the edges to form a flat envelope for the sanitary medium. One of the covers is preferably perforated along desired lines to allow of faster action of the chemical through the perforations. The latter, of course, may be used to outline letters or words for advertising the article or other products.

The vitality of different micro-organisms is known to be different, and I preferably prepare the sanitary medium 1 with a view of covering as wide a range as possible. One preferred form of preparing the same is to use a sheet of soft paper which has the property of taking up and absorbing the chemicals used. On this sheet of soft absorbent paper, I preferably apply, by the spraying method, a mixture of about 5% eucalyptus and pine needle oil and including a suitable binder, and then dust or prepare with a mixture of:

	Parts
Naphthaline.....	1/2
Thymol.....	1/2
Paraformaldehyde.....	1
Pyrethrum.....	2

These chemicals are so balanced that the aromatic oils dominate to maintain an agreeable odor in the theatre.

My sanitary medium may, of course, be impregnated in many different ways and with different substances, disinfectants, antiseptics and insecticides, depending upon results desired, and the various substances may be applied to one face or to both faces. They may be applied as mixtures or individually, as for instance, a disinfectant on one face, an antiseptic on the other face, and an insecticide superimposed upon one or the other, or both.

My invention is used by merely placing it on the seat of a chair before the occupant sits down. The sanitary medium thus creates an effective barrier between the chair seat and the body of the occupant. The body warmth and moisture of the occupant, together with possible warmth and moisture left on the seat by a previous occupant serve as agents to aid in the volatilization of the chemicals in the medium, so as to render them more readily available in their action against the micro-organisms on the seat.

The form shown in Figure 2 varies little from that of Figure 1, the only difference being that the envelope 5 enclosing the sanitary medium is

of a more conventional type and formed with a flap 5'. The form shown in Figures 3 and 4 is substantially similar, the envelope 6 being made of one piece of paper and sealed along two or three edges.

The form shown in Figure 5 is intended to be used without a wrapper or envelope, and the sanitary medium 1 is made with suitable fold lines shown at 6' so that the overall size may be conveniently reduced when it is desired to carry the article in a pocket or to use it for a program or other printed matter, such as advertizing. In this form, the chemical preparation should preferably be applied to one side only, so as to be unexposed as long as the sheet is folded. The preparation, such as a compound of germicides and antiseptics may be sprayed on, as previously described, or the antiseptic herbs with their fibers, succi and chlorophylls and other organic and inorganic disinfectants may be mixed and matted with the original paper pulp and rolled into sheets during the paper manufacture.

The form shown in Figure 6 is intended for wearing in a concealed manner, as inside the trousers, and is provided with a crotch 7 and with button holes 8 by means of which it may be buttoned to a girdle or the like, or fastened in any other way.

In the form shown in Figures 7 and 8, the medium 1, which may be made of tissue paper, cellocotton, or cloth, and which is prepared in the manner previously described, is placed in a bag 9, preferably made of cloth. This form is particularly intended for use on pillows, and is provided with a tubular pocket 10 bordering three sides of the treated sheet, and these pockets may be filled with herbs or chemicals 11 to have a more lasting medical or double action effect, especially in the treatment of tuberculosis with limedust, or of insomnia with hop leaves.

In the above form, the two open ends of the pocket are plugged with a cotton pad and also by the flaps 12 and its two press-buttons 13. Double action in this instance means disinfection by the medium in the center and medical treatment by the substance in the border pocket.

In Figure 9 I have shown a form of sanitary medium designed to serve as an antiseptic or germicide for a seat or on top of a head pillow. As compared with that of Figure 1, the cover has a window 14 cut out and closed by a piece

of cloth or cellular tissue paper, glued behind the opening to improve the volatility of the antiseptic or germicide.

The form shown in Figures 10 and 11 is possibly the most effective design. It gives the theatre-goer a three-fold security against infection. To make this form popular, it is made in the form of a ticket. The back wall of the envelope and the sheet 1 may be made substantially as in Figure 1, although the sheet 1 may be folded to reduce the size of the ticket.

The front wall of the envelope is formed with a set-off to form a pocket 15, and the set-off portion may be confined between a triangular perforated line 15' to define a triangular section connected to a tab 16, by means of which it may be torn off to release the contents of the pocket. These contents preferably comprise a tablet 17 to be used in a person's mouth and two cotton wads 18 to be used in the nose.

The sheet 1 is prepared as in the other forms. The tablet preferably contains a compound of concentrated herbs, such as: Queen's root, peppermint, thyme, cinnamon, selected sea flora and magnesia, malt and powdered milk. The cotton wads are preferably impregnated with the chlorophyll of peppermint or eucalyptus, with an addition of glycerin for keeping a certain amount of moisture for effective reaction. Volatile oils of antiseptic value may be used for correction or improvement of the odor.

I claim:

1. A sanitary medium for a person seated on a chair, comprising a sheet of soft, absorbent material impregnated with a disease-controlling agent and adapted to be interposed between the chair seat and the body of a person, the sheet having an envelope enclosing the same with perforations in the envelope to facilitate vaporization of the substance with which the sheet has been treated.

2. A sanitary medium for a person seated on a chair, comprising a sheet of soft, absorbent material impregnated with a disease-controlling agent and adapted to be interposed between the chair seat and the body of a person, the sheet having covers on opposite sides thereof, with perforations in one of the covers to facilitate vaporization of the substance with which the sheet has been treated.

ARNO GRAUE.