F. ALLAND.

SANITARY CUP.

APPLICATION FILED FEB. 5, 1919.

1,330,033.

Patented Feb. 3, 1920.

Fig. 1.

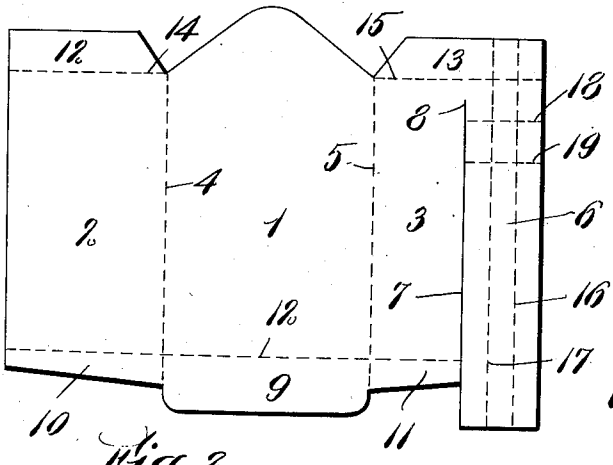


Fig. 2.

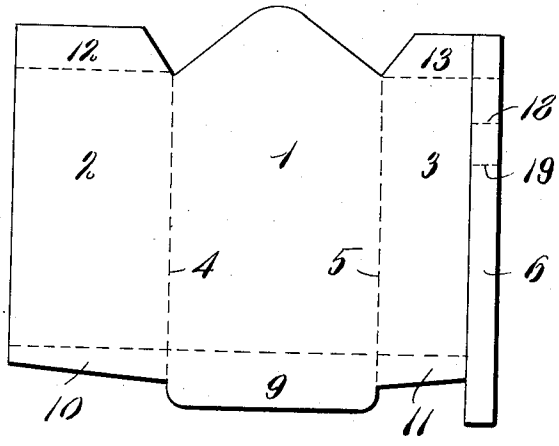


Fig. 4.

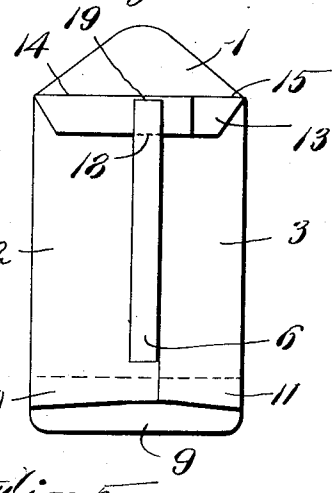


Fig. 5.

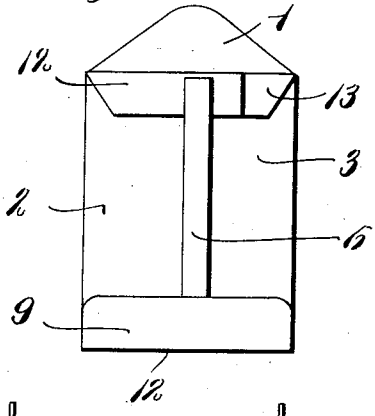


Fig. 3.

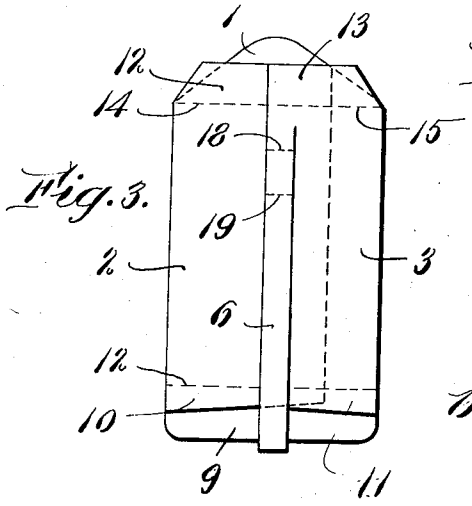


Fig. 7.

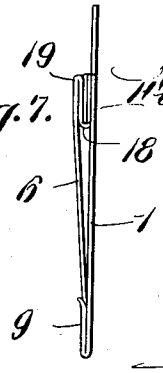
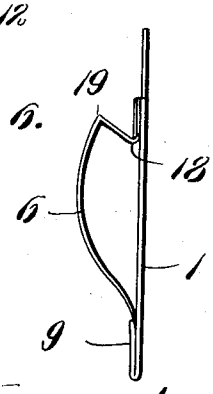


Fig. 6.



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UNITED STATES PATENT OFFICE.

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SANITARY CUP.

1,330,033. Specification of Letters Patent. Patented Feb. 3, 1920.

Application filed February 5, 1919. Serial No. 275,099.

To all whom it may concern:

Be it known that I, FELIX ALLAND, a citizen of the United States of America, and resident of Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Sanitary Cups, of which the following is a specification.

This invention relates to sanitary cups made of wax paper, waterproof fabric, paperoid, or the like, and more particularly to sanitary cups of the type which are flat when collapsed.

The object of the invention is to provide a cup of the character referred to with a loop handle adapted to render the cup more convenient to use, and to arrange the loop handle in such manner that the cup can be manufactured rapidly and cheaply. More particularly the invention has for its object a folded cup comprising a loop handle adapted to lie flatly against the cup when the cup is collapsed and to be extended sufficiently to insert one or more fingers therethrough when it is desired to use the cup, and at the same time to arrange the handle so that the cup can be manufactured at small cost, cups of this character generally being used only once and then discarded.

The loop handle is preferably formed integrally with the cup, both to simplify the construction and to render the handle more secure, and in its broadest aspect the invention consists in a sanitary cup comprising a single piece of paper or the like having a loop handle integral therewith, the handle being integral with the cup at either one or both ends but preferably being integral only at one end and being secured to the cup at the other end so as to extend outwardly from the cup.

The sheet of paper is bent or folded into cup shape, preferably being folded to form a flat cup, and the lateral edges are then secured together preferably with a suitable adhesive. Before bending or folding the sheet a marginal portion at one side is separated from the sheet except at one end and this marginal portion forms the loop handle, the loose end of the handle being secured to the cup in spaced relationship to the integral end during the process of bending or folding the sheet or after the cup is completely formed and the loose end of the handle being preferably secured to the cup sufficiently close to the integral end to permit the handle to extend outwardly from the cup. The aforesaid marginal portion of the sheet is preferably folded longitudinally before the sheet is formed into the cup so as to increase the strength of the handle and so as to avoid raw or sharp edges on the handle.

The aforesaid and other features of the invention will be rendered clearer by reference to the preferred embodiment of the invention illustrated in the accompanying drawings, in which—

Figure 1 is a view of the blank from which the cup is formed;

Figs. 2, 3, 4 and 5 are views showing different stages in the process of forming the cup;

Fig. 6 shows the completed cup with the handle extended; and

Fig. 7 shows the completed cup with the handle folded along the side of the cup.

The blank shown in Fig. 1 comprises a central portion 1 and two lateral portions 2 and 3, the junctions between the central and lateral portions being indicated by dash lines 4 and 5. The lateral portion 3 has a marginal portion 6 separated from the rest of the sheet along the line 7 from the bottom up to a point 8 somewhat below the top of the sheet. The portions 1, 2 and 3 have lower ends 9, 10 and 11 intended to be folded upwardly about the line 12, and the lateral portions 2 and 3 have upper ends 12 and 13 intended to be folded downwardly about the lines 14 and 15. The portion forming the handle 6 is intended to be folded longitudinally about the lines 16 and 17 and horizontally about the lines 18 and 19.

The first step in forming the cup from the blank shown in Fig. 1 is illustrated in Fig. 2, wherein the portion 6 has been folded about the longitudinal lines 16 and 17, the outer portion of the handle first being folded inwardly about the line 16 and this folded portion then being folded inwardly about the line 18. The next stage of the formation of the cup is illustrated in Fig. 3 wherein the lateral portions 2 and 3 have been folded inwardly about the lines 4 and 5 along the side of the central portion 1, the portion 2 being folded first and the portion 3 being folded over the portion 2. The next step consists in folding the ends 12 and 13 downwardly about the lines 14 and 15 and then

folding the handle 6 upwardly about the line 18 and then downwardly about the line 19, after which the article is in the form shown in Fig. 4. It will be observed that in folding the handle 6 upwardly about the line 18 and downwardly about the line 19, the lower end of the handle is brought above the line 12. The last step consists in folding the portions 9, 10 and 11 upwardly about the line 12 over the lower end of the handle. The finished article is then in the form shown in Fig. 5.

By virtue of the folds 18 and 19 in the handle, the handle may either be extended from the cup as illustrated in Fig. 6 to permit the fingers to be inserted through the loop, or the handle may be folded along the side of the cup as illustrated in Fig. 7. In shipping and dispensing the cups the handle would be folded as shown in Fig. 7, and in using the cup the handle would be extended as shown in Fig. 6.

From the foregoing description it will be apparent that a sanitary cup of the character described is rendered much more convenient by virtue of the loop handle than the ordinary cup having either no handle at all or merely a small tab extending outwardly therefrom. Moreover, my improved cup may be very easily and cheaply formed by virtue of the unique relationship between its various parts.

I claim:

1. A sanitary cup of paper folded to form closed sides and comprising a downwardly folded top margin, an upwardly folded bottom margin, and a handle having its ends permanently attached to the cup underneath said folded top and bottom margins.

2. A sanitary cup of paper folded to form closed sides and a closed bottom, and a paper handle disposed flatwise of the cup and permanently attached to the cup at both top and bottom, said handle being longer than the distance between its attached ends and having reverse folds formed transversely of the handle to permit it to lie flat against the side of the cup or to be extended away from the side of the cup.

3. A sanitary cup comprising a sheet of material having at one side a marginal portion separated from the sheet throughout a portion of its length to form a loop handle, and said sheet having its lateral edges secured together with said handle on the outside of the cup.

4. A sanitary cup comprising a sheet of material having at one side a marginal portion separated from the sheet throughout a portion of its length and folded longitudinally to form a loop handle of a plurality of thicknesses, and said sheet having its lateral edges secured together with said handle on the outside of the cup.

5. A sanitary cup comprising a sheet of material having at one side a marginal portion separated from the sheet except at one end and having its sides secured together with said portion outside the cup, said portion being secured to the cup at the other end to form a loop handle.

6. A sanitary cup comprising a sheet of material having a central portion and a lateral portion on each side of the central portion, the lateral portions being folded inwardly along the central portion and being secured together at their edges, and a loop handle disposed flatwise of the cup, one end of which is formed integrally with one of said lateral portions and the other end of which is attached to the side of the cup.

7. A sanitary cup comprising a sheet of material having a central portion and a lateral portion on each side of the central portion, the lateral portion being folded inwardly along the central portion and being secured together at their edges, one of said lateral portions having a marginal portion separated from its edge except at one end and secured to the cup at the other end to form a loop handle.

8. A sanitary cup comprising a sheet of material having a central portion and a lateral portion on each side of the central portion, the lateral portions being folded inwardly along the central portion and being secured together at their edges, one of said lateral portions having a marginal portion separated from its edge except at one end, and the bottom of said sheet being folded upwardly over the other end of said portion to secure said other end to the cup so as to form a loop handle extending outwardly from the cup.

Signed by me at Boston, Massachusetts, this 1st day of February, 1919.

FELIX ALLAND.