

A. M. BLISS.
METHOD OF MAKING SANITARY DRINKING CUPS.
APPLICATION FILED JULY 3, 1911. RENEWED AUG. 5, 1912.

1,046,050.

Patented Dec. 3, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

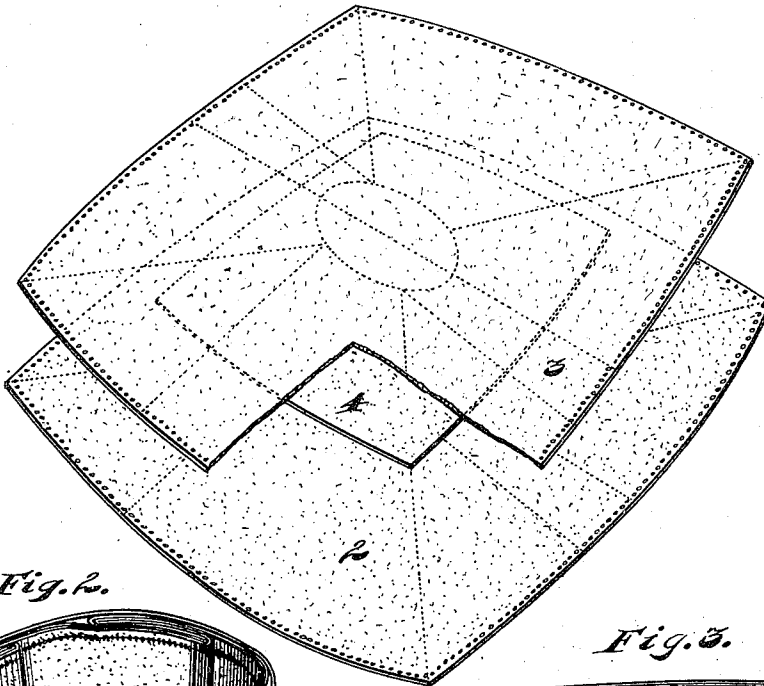


Fig. 2.

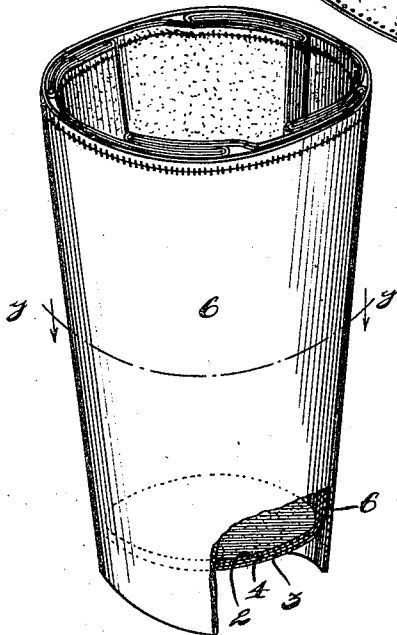


Fig. 3.

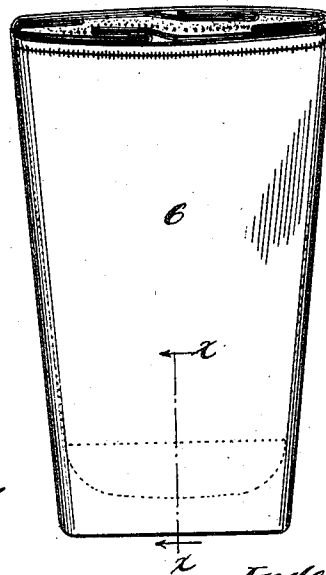
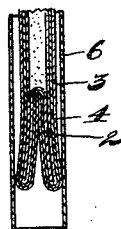


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 5.

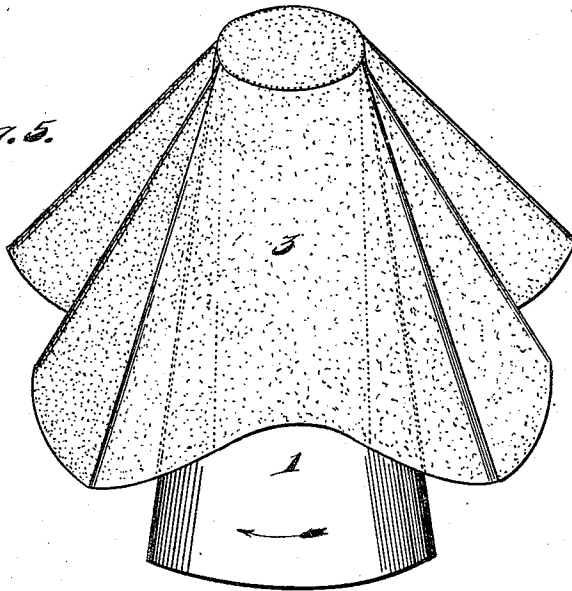


Fig. 6.

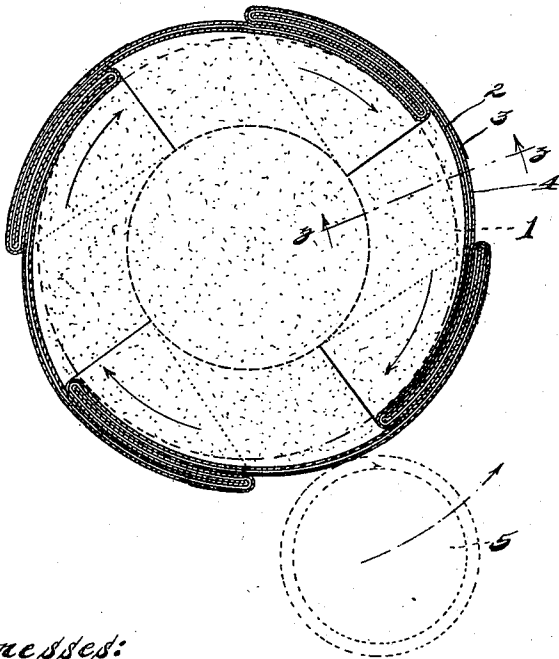
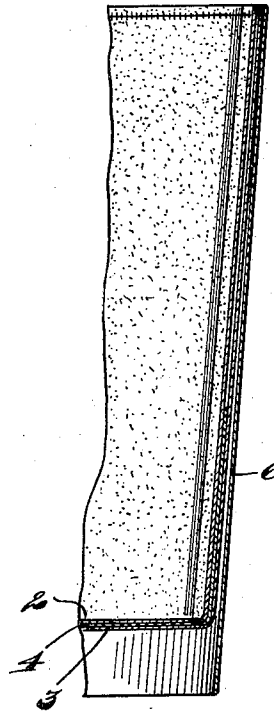


Fig. 7.



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UNITED STATES PATENT OFFICE.

ALFRED MARSH BLISS, OF CHICAGO, ILLINOIS, ASSIGNOR TO SANITARY DRINKING CUP COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

METHOD OF MAKING SANITARY DRINKING-CUPS.

1,046,050.

Specification of Letters Patent.

Patented Dec. 3, 1912.

Application filed July 3, 1911, Serial No. 636,615. Renewed August 5, 1912. Serial No. 713,445.

To all whom it may concern:

Be it known that I, ALFRED M. BLISS, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Methods of Making Sanitary Drinking-Cups, of which the following is a specification.

My invention relates to improvements in methods for making a sanitary drinking cup and has for its object the provision of an improved method for making such cups.

The invention consists in the method of procedure hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a perspective view of the sheets of material employed in the making of the cup with a portion of one of said sheets broken away, Fig. 2 is a perspective view of a folded cup with a portion broken away, Fig. 3 is a perspective view of a completed cup folded for shipment or transportation, Fig. 4 is a section of the cup taken on line $x-x$ of Fig. 3, Fig. 5 is a perspective view of the form of mandrel employed in forming a cup shown with the sheets of material placed thereover and partially folded, Fig. 6 is an enlarged horizontal section of the cup taken on line $y-y$ of Fig. 2 and indicating the mandrel and contact roller employed in making the cup in dotted lines, and Fig. 7 is an enlarged vertical section through one section of a completed cup.

The preferred method of making a cup consists in first providing a rotatable form or mandrel 1 which is made slightly tapering in form as indicated. Sheets 2, 3 and 4 of water proof paper, such as paraffin paper are arranged as indicated in Fig. 1, sheets 2 and 3 being of the same size and sheet 4 of smaller size and arranged centrally with reference to sheets 2 and 3 and between sheets 2 and 3. The sheets of paper are placed over the end of mandrel 1 and folded over the sides thereof as indicated in Fig. 5. Then the mandrel is rotated in one direc-

tion as indicated by the arrows and a contact roller 5 is applied to said mandrel and the folds of said sheets of material and revolved in a direction opposite to the direction of rotation of said mandrel, and in the same direction as that in which the folds are laid upon the mandrel as indicated in Fig. 6. This will cause said folds to lie closely against the periphery of the mandrel, and, owing to the fact that roller 5 moves in the direction relatively to the folds in which said folds are laid upon the mandrel, all danger of disturbing said folds is eliminated and the air is readily forced from said folds. After the folds have thus been laid in position the edges thereof are trimmed by applying a knife thereto while on the mandrel. The edges of the sheets and folds are then stitched together to retain the same in cup form. If desired a flexible cover 6 is placed around the cup thus formed and stitched to the upper edge thereof.

While I have illustrated and described the preferred method of procedure for carrying my invention into effect, this is capable of variation or modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the exact details of construction and steps set forth, but wish to avail myself of such variations and modifications as fall within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. The method of making a sanitary drinking cup which consists in folding a sheet of flexible water proof material over the end of a rotatable mandrel; then rotating said mandrel while a contact roller is held in contact with the folds of said material and revolved in a direction opposite to the direction of rotation of said mandrel; and then securing said folds in cup form, substantially as described.

2. The method of making a sanitary drinking cup which consists in folding a plurality of sheets of flexible water proof

material over the end of a rotatable mandrel; then rotating said mandrel while a contact roller is held in contact with the folds of said material and revolved in a direction opposite to the direction of said
5 mandrel; and then securing said folds in cup form, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED MARSH BLISS.

Witnesses:

HELEN F. LILLIS,
JOSHUA R. H. POTTS.