

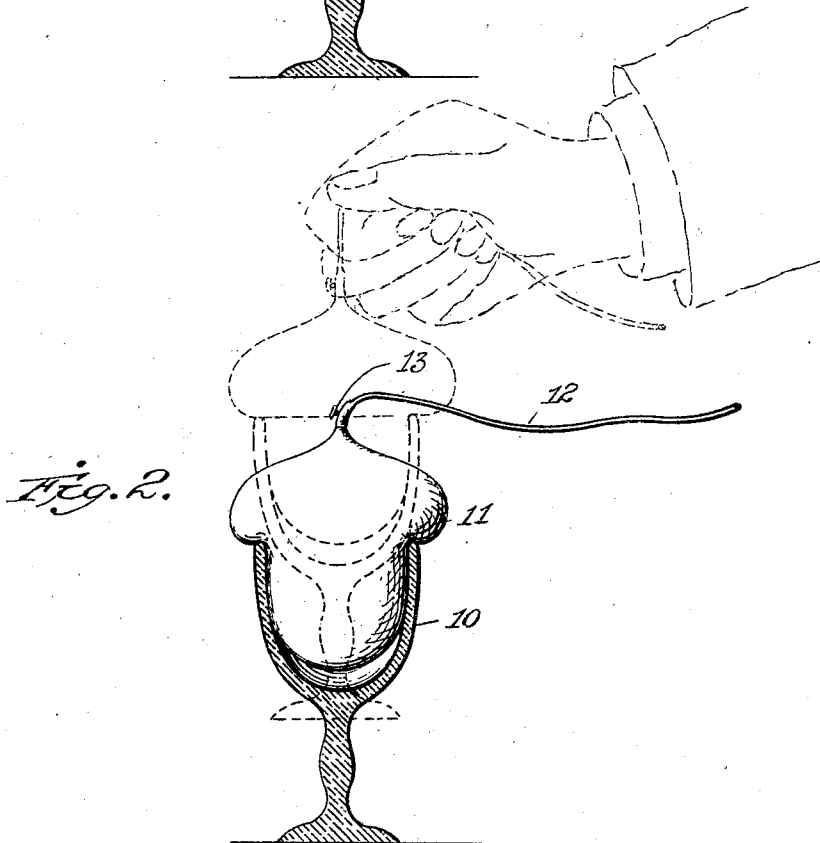
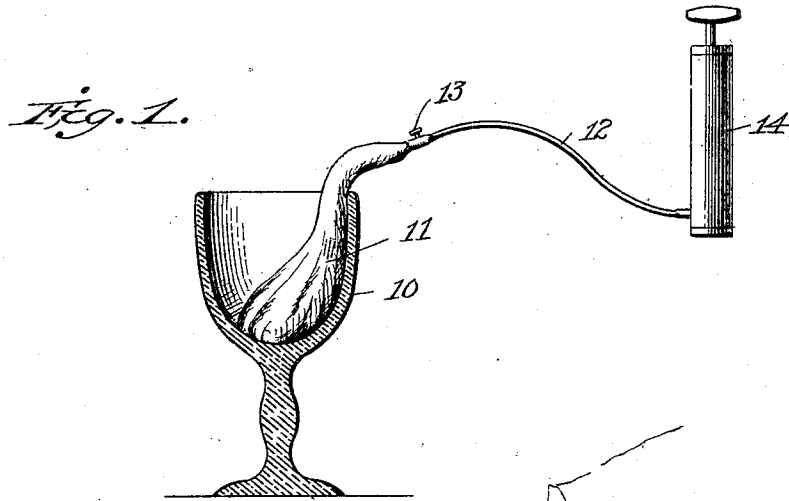
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PATENTED NOV. 20, 1906.

E. L. TOY.

METHOD FOR PROTECTING THE INSIDE OF VESSELS DURING THE PROCESS OF ORNAMENTATION.

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Inventor

Elias L. Toy

Witnesses
Edwin L. Jewell
E. A. Kelly

By *Macomber Ellis*
his Attorney

UNITED STATES PATENT OFFICE.

ELIAS L. TOY, OF BUFFALO, NEW YORK.

METHOD FOR PROTECTING THE INSIDE OF VESSELS DURING THE PROCESS OF ORNAMENTATION.

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Specification of Letters Patent.

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Application filed May 6, 1905. Serial No. 259,251.

To all whom it may concern:

Be it known that I, ELIAS L. TOY, a citizen of the United States of America, and a resident of Buffalo, in the county of Erie and State of New York, have invented an Improved Method for Protecting the Inside of Vessels During the Process of Ornamentation, of which the following is a full, clear, and exact description.

My invention relates particularly to a method for protecting glass goblets, tumblers and other similar vessels or articles during the process of manufacture. In this class of work there is difficulty in protecting the inside of such articles from any deleterious matter during the processes of etching, glossing, frosting, or the like.

To overcome this difficulty is the object of my invention, which consists in placing a collapsed bag within a vessel and then inflating the bag until it completely closes the vessel at the edge and the union between the bag and the vessel becomes air-tight, as hereinafter described and claimed.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a vertical section of a goblet and a side elevation of my improved inflatable bag with valve in collapsed condition in the goblet and connected with a suitable inflating device. Fig. 2 is a similar view, the inflating device being omitted and showing the bag inflated in the goblet.

10 is a vessel—such as a goblet, tumbler, or similar article of glass or crockery or similar ware—the interior of which it is desired to thoroughly protect during the process of ornamentation.

For the purpose of protecting the interior of such a vessel, I provide a collapsible bag, 11, of rubber, having a filling tube or pipe 12 and a controlling-valve 13. The tube or pipe 12 may be connected with a suitable inflating device, such as an air-pump 14. In carrying out my method I place the rubber bag 11 in collapsed condition within the vessel or article to be treated and then inflate the bag with air, gas, or other suitable liquid through the tube or pipe 12 until the pressure of the air or liquid puts the rubber bag and the inclosing object in such close contact that the union becomes air-tight and completely closes the edge of the vessel. I then close the valve so as to retain the pressure within the bag

until the work upon the vessel or article is completed, when the object can be quickly released from the bag by opening the valve.

For use in articles of manufacture having a considerable depth I preferably use the general style and shape of construction heretofore described; but it is evident that the shape and size of my device may be varied and regulated by the depth and size of the articles upon which it is used.

It is evident that many modifications of the idea here described may be made without departing from the spirit of my invention, which is, in chief, to provide means for protecting the interior of the object from the action of any deleterious matter that is used in the process of manufacture. It will be observed that the vessel or article can be held by the bag wholly suspended or supported by its neck.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The method for protecting the inside of vessels during the process of ornamentation which consists in placing a collapsible bag within a vessel and then inflating the bag until the bag becomes tense and completely closes the vessel and extends over and covers the upper edge of the vessel, and the union between the bag and the vessel becomes air-tight so that the bag is held to the inside wall and the upper edge of the vessel by atmospheric pressure and retaining the pressure within the bag during the process of ornamentation.

2. The method for protecting the inside of vessels during the process of ornamentation which consists in placing a collapsible bag having an inflating-tube and valve within a vessel and then inflating the bag until the bag becomes tense and completely closes the vessel and extends over and covers the upper edge of the vessel, and the union between the bag and the vessel becomes air-tight so that the bag is held to the inside wall and the upper edge of the vessel by atmospheric pressure and retaining the pressure within the bag during the process of ornamentation by closing the valve and suspending the vessel by the neck of the inflating-tube.

ELIAS L. TOY.

Witnesses:

HENRY H. SALMON,
M. E. LYNCH.