No. 697,063. Patented Apr. 8, 1902.

C. E. ALHART.

SOAP BUBBLE BLOWER.

(Application filed Jan. 2, 1902.)

(No Model.)

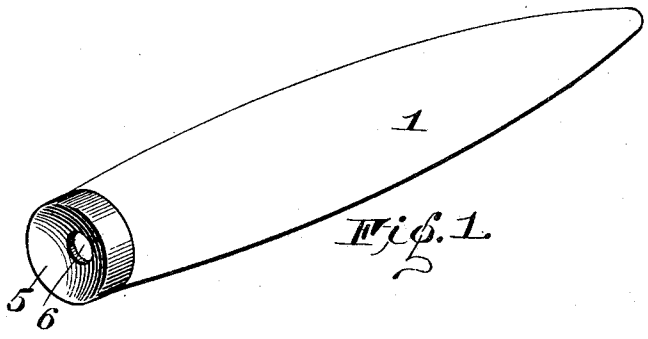


Fig. 1.

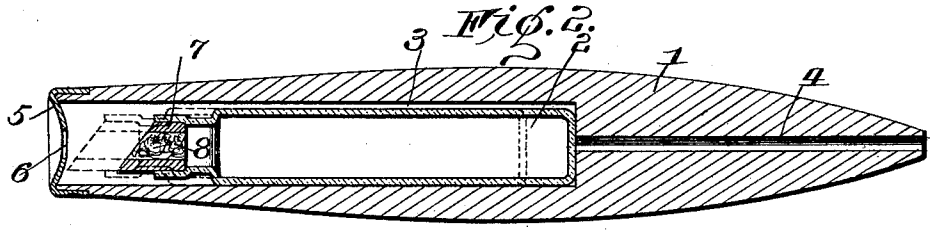


Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE.

CLARENCE E. ALHART, OF ROCHESTER, NEW YORK, ASSIGNOR OF ONE-HALF TO HARVEY B. CARLTON, OF ROCHESTER, NEW YORK.

SOAP-BUBBLE BLOWER.

SPECIFICATION forming part of Letters Patent No. 697,063, dated April 8, 1902.

Application filed January 2, 1902. Serial No. 88,046. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE E. ALHART, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Soap-Bubble Blowers; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My present invention has for its object to provide a toy adapted for blowing soap-bubbles which is simple and cheap in construction, is adapted to hold the soap and water to form the bubbles in such manner that it is not liable to be spilled, and yet the device is ready for use at any time and may, if desired, be carried in the pocket.

To these ends it consists in certain improvements hereinafter described, the novel features being pointed out particularly in the claims at the end of this specification.

In the drawings, Figure 1 is a perspective view of a bubble-blower embodying my improvements, and Fig. 2 a longitudinal sectional view of the same.

Similar reference-numerals in the two figures indicate similar parts.

The article embodies generally a hollow body or container 1, preferably of wood and having the external appearance of a cigar, and an air-passage and a separate receptacle 2 for the soap and water arranged within the body and in such relation to the passage that the air blown through the body may pass around the end of the receptacle and through the exit-aperture in the body to form the bubbles.

The body 1 is preferably formed of wood or other cheap material, provided with a longitudinal passage enlarged at one end to form the chamber 3, from which extends the smaller passage or tube 4, and the outer end of the chamber 3 is covered by a removable sheet-metal cap-plate 5, fitting over the body, preferably concaved at the outer side, as shown, and provided with the small central aperture 6.

The container 2 for the soap and water is preferably in the form of a small glass vial slightly smaller than the chamber 3 in length and diameter and also preferably having its outer end slightly smaller than the body to permit the passage of air around it. The forward end of this container is provided with a stopper 7, having a central aperture in which is arranged a plug 8 of material such as hair, cloth, or preferably sponge and which I will term "fibrous," and which will serve to finely divide the soapy water into suds, films, or bubbles as it passes through, and the films thus formed will extend over the aperture 6 in the cap 5 and may be formed into large bubbles by blowing through the tube 4 and chamber 3. In order to prevent the aperture 6 from being closed by the stopper 7 of the receptacle, the end of said stopper is in the present instance beveled, so as to project at one side, as shown; but other means could, if desired, be employed for this purpose.

The object in making the receptacle 2 slightly smaller than the chamber is not only to permit the passage of the air around it, but also to permit a slight longitudinal movement of the receptacle toward the end of the body by giving the latter a sharp stroke on the hand to force out a drop of the soapy water or suds to cover the aperture 6 in the cap; but this I do not regard as absolutely essential, though it is desirable.

The device as a whole is simple and cheap, and owing to the portability and compactness may, if desired, be carried in the pocket of the user without the escape of the soap-suds.

I claim as my invention—

1. A bubble-blower consisting of a hollow body having a small eduction-aperture and a liquid-receptacle in the body having a small discharge-aperture arranged in proximity to the eduction-aperture in the body.

2. A bubble-blower consisting of a body having a small eduction-aperture and a liquid-receptacle in the body having a small discharge-aperture near that in the body and an air-passage extending around said discharge-aperture.

3. A bubble-blower consisting of a body having a chamber, an eduction-aperture at the end, and an air-passage, a liquid-recep-

tacle arranged in the chamber having a discharge-passage arranged in proximity to the eduction-aperture in the body and separated from the walls of the chamber.

4. In a bubble-blower, the combination with a hollow body having an air-passage, a chamber and an eduction-aperture at the end of the latter, of a removable liquid-receptacle in the chamber having a small discharge-aperture arranged in proximity to the eduction-aperture in the body.

5. In a bubble-blower, the combination with the body having the chamber provided with the eduction-aperture, and the air-passage leading to the chamber, of the removable liquid-receptacle in the chamber having the small discharge-aperture arranged in proximity to the eduction-aperture in the chamber and separated from the walls of the chamber to permit the passage of air around it.

6. In a bubble-blower, the combination with the body having the chamber provided with the eduction-aperture and the air-passage leading to the chamber, of the removable liquid-receptacle in the chamber having the small discharge-aperture and the stopper therein, of material such as sponge, said aperture being arranged in proximity to the aperture in the chamber.

7. In a bubble-blower, the combination with the body having the chamber and air-passage and a perforated cap at the end of the chamber, of the removable liquid-receptacle in the chamber having a small discharge-aperture arranged in proximity to the cap and separate from the walls of the chamber to permit the passage of air around it.

8. In a bubble-blower, the combination with the body having the chamber provided with an eduction-aperture, of a removable liquid-receptacle having the small discharge-aperture and arranged in the chamber and capable of longitudinal movement therein.

CLARENCE E. ALHART.

Witnesses:
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H. B. CARLTON.