

No. 823,388.

PATENTED JUNE 12, 1906.

J. BLONDE.
SOAP BUBBLE PIPE.
APPLICATION FILED FEB. 10, 1906.

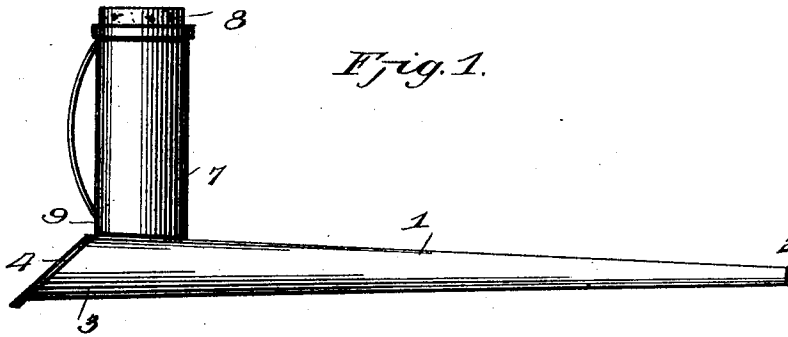


Fig. 1.

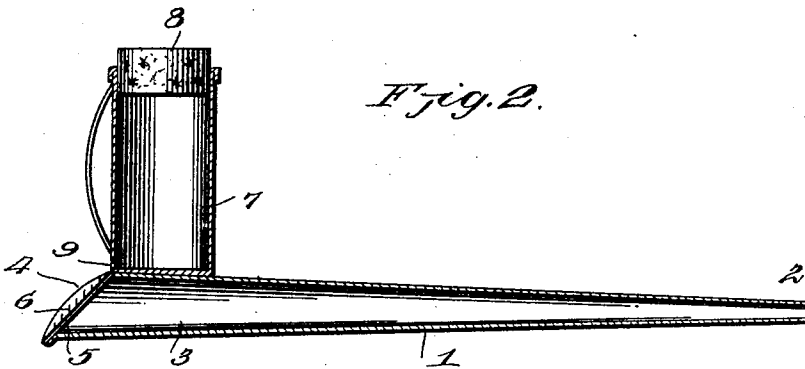


Fig. 2.

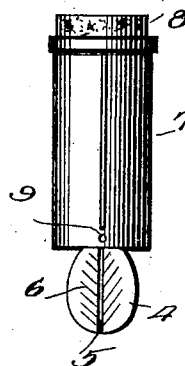


Fig. 3.

Witnesses
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JOSEPH BLONDE, OF LENOX DALE, MASSACHUSETTS.

SOAP-BUBBLE PIPE.

No. 823,388.

Specification of Letters Patent.

Patented June 12, 1906.

Application filed February 10, 1906. Serial No. 300,523.

To all whom it may concern:

Be it known that I, JOSEPH BLONDE, a citizen of the United States, residing at Lenox Dale, in the county of Berkshire and State of Massachusetts, have invented new and useful Improvements in Soap-Bubble Pipes, of which the following is a specification.

This invention relates to soap-bubble pipes, the object of the invention being to provide a simple and inexpensive pipe which is especially adapted for blowing soap-bubbles, the pipe being adapted to hold a considerable quantity of suds, so that the continuous blowing of the bubbles will not be interfered with.

With the above general object in view the invention consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a soap-bubble pipe embodying the present invention. Fig. 2 is a longitudinal section through the same. Fig. 3 is an end view thereof.

The soap-bubble pipe contemplated in this invention comprises, essentially, a blowpipe 1, which is preferably made tapering and gradually increasing in size from the mouthpiece end 2 to the discharge end 3, said discharge end being cut on a bevel or incline and comprising an inclined or oblique end wall 4, which is provided with a vertically-disposed slot 5, extending entirely through the wall, and capillary fissures 6, which converge downwardly toward and communicate with the slot 5, said fissures being in the form of very small shallow grooves which lead from the slot outward and incline upward divergently, terminating short of the lateral edges of the inclined wall 4, as clearly shown in Fig. 3.

Extending upward from the blowpipe 1 is a suds-receptacle 7, into the upper end of which is fitted a suitable stopper 8. Immediately adjacent to the bottom of the suds-receptacle 7 the latter is provided with a small vent 9, which opens out directly over the upper edge of the inclined wall 4, so that a small quantity of soapsuds will trickle down the inclined wall 4 and be gathered in and concentrated by the capillary fissures and directed immediately over the slot 5.

To operate the pipe, the suds-water, which should be fairly thick, is placed in the receptacle 7 and sealed by the stopper 8. As the

suds-water trickles slowly down over the face of the inclined wall 4 it closes the slot 5 with a thin film. Upon blowing gently through the blowpipe 1 the film of suds is expanded into the form of a bubble, and when said bubble has attained the desired size it may be detached or shaken off from the oblique wall 4 by giving the pipe as a whole a slight jerk or quick motion. As soon as the bubble is detached a new film forms over the slot 5 in readiness to form another bubble.

In order to facilitate the liberation of the bubble, a bowed wire 10 is arranged at the front of the receptacle 7, extending substantially from top to bottom thereof. The bubble as it is formed adheres to the wire 10 and moves upward thereon and may be detached easily therefrom by continuing to blow through the pipe or by giving the pipe a jerk and dislodging the bubble therefrom in the ordinary manner.

I claim—

1. A soap-bubble pipe consisting of a blowpipe having an inclined slotted wall at its discharge end, and an upstanding suds-receptacle extending at an angle to the discharge end of the blowpipe and arranged to discharge on the inclined slotted wall.

2. A soap-bubble pipe comprising a blowpipe having an inclined wall at its discharge end provided with a slot, and capillary fissures leading to said slot.

3. A soap-bubble pipe consisting of a blowpipe having an inclined wall at the discharge end thereof formed with a vertical slot and provided with downwardly-converging capillary fissures communicating with said slot.

4. A soap-bubble pipe comprising a blowpipe having an inclined and slotted wall at its discharge end, and a suds-receptacle extending upward from the blowpipe and provided with a discharge-vent located close to the slot in the discharge end of the blowpipe.

5. A soap-bubble pipe consisting of a blowpipe having an outlet-opening therein, a suds-receptacle extending upward from the pipe adjacent to the outlet-opening, and a bubble guiding and conducting element extending upward alongside the receptacle.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH BLONDE.

Witnesses:

FRANÇOIS X. ZIMMERMANN,
CHARLES E. TUCKER.