

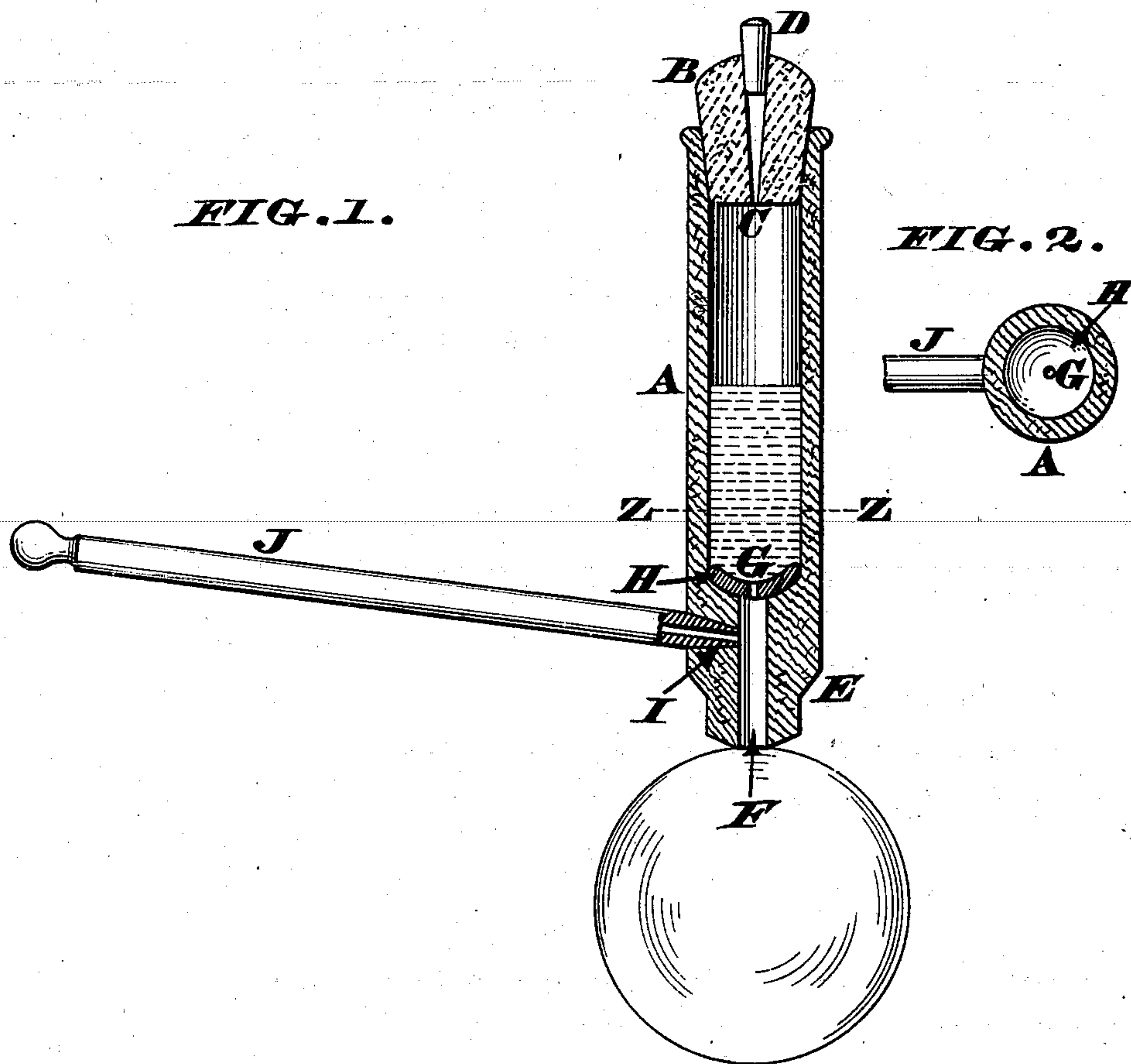
No. 657,609.

Patented Sept. 11, 1900.

A. D. MENDENHALL.
BUBBLE BLOWING DEVICE.

(Application filed Nov. 27, 1899.)

(No Model.)



Attest.

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UNITED STATES PATENT OFFICE.

ALEXANDER D. MENDENHALL, OF NEWPORT, KENTUCKY, ASSIGNOR OF
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BUBBLE-BLOWING DEVICE.

SPECIFICATION forming part of Letters Patent No. 657,609, dated September 11, 1900.

Application filed November 27, 1899. Serial No. 738,375. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER D. MENDENHALL, a citizen of the United States, residing at Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Bubble-Blowing Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, which form a part of this specification.

My invention comprises a cheap and simple bubble-blowing device, the peculiar construction of which will be readily understood by referring to the accompanying drawings, wherein—

Figure 1 is an axial section of the preferred construction of said device, a reservoir of the same being partially filled with fluid and a bubble being formed at its bottom. Fig. 2 is a horizontal section of the device, taken at the line Z Z of the preceding illustration.

The principal member of my device is a reservoir, preferably made in the shape of a hollow cylinder or tube A and closed at its upper end with a stopper B, having a longitudinal bore C, within which bore is fitted a readily-removable plug D. The lower end of this reservoir takes the shape of a nozzle E, having a longitudinal outlet F, that communicates either directly or indirectly with the interior of said reservoir. In the present case, however, this outlet communicates with a small perforation G in the center of a dished metallic disk H, that constitutes the bottom of the reservoir. I is a lateral opening leading into the outlet or ventage F below its upper end, and J is a stem or blowpipe inserted in said opening.

The method of using this device is as follows: The stopper B is first detached from the reservoir A to permit it being filled with soap-suds or other fluid capable of being blown into bubbles, after which said stopper is tightly fitted in place, as is also the plug D. This tight fit of the stopper and plug effectually prevents the entrance of air at the top of the reservoir, and for this reason the device can

be safely carried in a person's pocket without danger of the suds leaking out of the tube A. Preliminary to blowing bubbles the end of nozzle E is given a smart tap on the palm of one's hand, thereby causing a very minute drop of suds to pass through the hole G and form a film at the lower end of the ventage or outlet F. The operator then inserts the end of the stem in his mouth and blows steadily to form a bubble in the usual manner, the bubble being detached when desired by simply giving the reservoir a slight side jerk; but just before one bubble is ready to be shaken off the plug D can be momentarily withdrawn to admit air to the reservoir and allow a second drop of suds to traverse the outlet F and adhere to the top of the previously-formed bubble. Said plug being again fitted in place, the operator blows in the stem J, and thus forms a second bubble directly upon the first one, and so on until they constitute a continuous chain of balls five or six feet long; but in forming a number of such connected bubbles the plug D can be dispensed with and the bore C be controlled by a finger of the operator, the finger being momentarily removed to admit air to the reservoir, as above described.

The above describes a device having a wooden reservoir, and hence it is necessary to use the perforated disk G H at the upper end of the ventage F, because the hole G will always preserve one fixed invariable size and not expand or contract as the tube swells or shrinks.

I claim as my invention—

A bubble-blowing device comprising a reservoir having at one end a bored stopper provided with a readily-removable plug, and having, at its other end, a longitudinal outlet with which a lateral air-inlet communicates, for the purpose described.

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

ALEXANDER D. MENDENHALL.

Witnesses:

JAMES H. LAYMAN,
MARY V. MENDENHALL.