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M. STURM, JR
BUBBLE PIPE DEVICE
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2,137,034

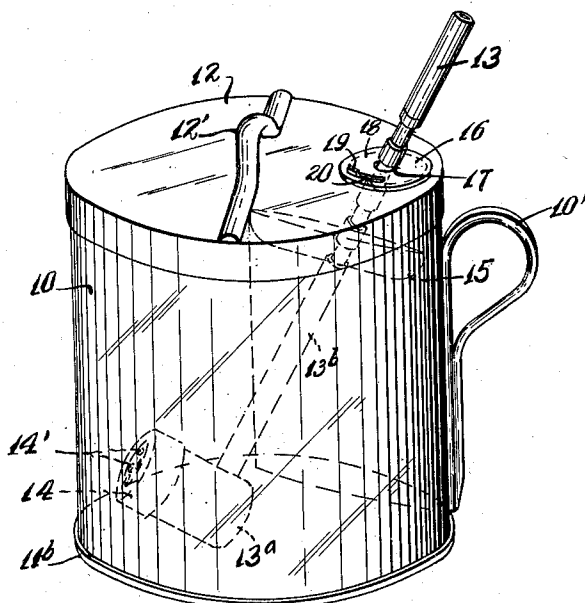


Fig. 1.

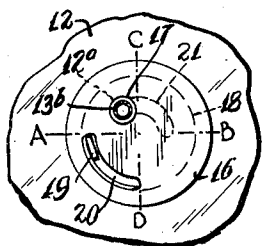


Fig. 3.

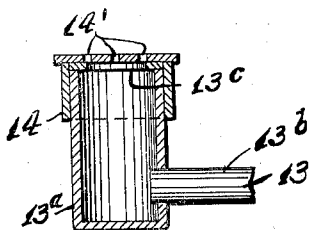


Fig. 4.

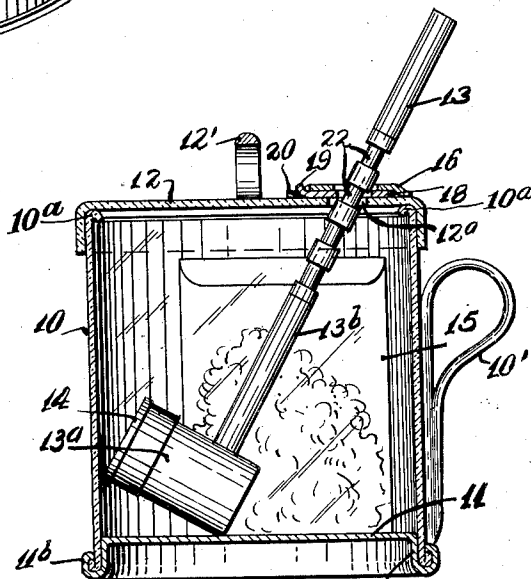


Fig. 2.

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BUBBLE PIPE DEVICE

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1 Claim. (Cl. 46—7)

This invention relates to new and useful improvements in a bubble pipe device.

The invention has for an object the construction of a device as mentioned which is characterized by a cylindrical transparent container provided with a removable cover and associated with a pipe for blowing bubbles of various sizes, the head of which is normally disposed within the container and the stem of which passes through an opening in the top wall of said cover.

Still further the invention also proposes the provision of a small package of powdered soap normally disposed within the container and which may be used with water supplied to the container for producing soap bubbles.

Still further the invention proposes an arrangement whereby the cover may be attached at various positions along the stem of said pipe.

Another object of the invention is the construction of a device as mentioned which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claim in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is a perspective view of a device constructed according to this invention.

Fig. 2 is a transverse sectional view of Fig. 1.

Fig. 3 is a fragmentary plan view of a portion of the cover of the device.

Fig. 4 is a fragmentary vertical sectional view through the head of the pipe used in this device.

The bubble pipe device comprises a cylindrical container 10 preferably made of Celluloid or similar transparent material having a handle 10' of the same material, and a metal bottom 11 secured to the bottom end thereof with a water proof joint. This metal bottom has a flange portion 11^a extending along the inner side of the cylindrical wall of the container 10 and having its free edge 11^b formed into a roll which grips the edge of the side wall of the container.

A cover 12 is rotatable upon the open top of the container 10, and is provided with a handle member 12'. The top edge of the side wall of the container is formed with a roll portion 10^a. A bubble producing pipe 13 has its head portion 13^a disposed within the container and its stem portion 13^b extending out through a top opening 12^a in the cover 12. The head of the pipe

13^a is formed with a large opening 13^c at its upper surface to blow a large single bubble. A cap 14 is adapted to slidably engage over the free end of the pipe head 13^a and is provided with a plurality of small apertures 14' to permit the forming of small bubbles. This cap is interchangeable with caps of any other aperture layout.

A small bag of powdered soap 15 is normally disposed within the container. This bag may be removed and some of the soap added to water placed into the container for producing the bubbles.

The cover 12 is formed with said aperture 12^a through which the stem 13 of the pipe passes. An inverted cup-shaped member 16 is secured along its edges by cement upon the top face of the cover 12 and is formed with an off-set opening 17 from the center thereof aligned with the opening 12^a. A disc 18 is disposed within the hollow of the cup-shaped member 16 and has a projecting lug portion 19 which engages into an arcuate opening 20 in the top of the cup-shaped member 16. This permits the lug portion 19 to be moved to turn the disc 18.

A horn shaped opening 21 is formed in the disc 18 and is concentric with the center of rotation of the disc 18. It is adapted to have its large end portion aligned with the openings 12^a and 17. Furthermore, when the disc 18 is turned by manually moving the lug portion 19 a smaller portion of the horn shaped opening 21 will engage the stem 13 of the pipe to lock it upon the stem. In order to facilitate the holding between the sides of the horn shaped opening 21 and the stem, the stem is formed with a plurality of peripheral grooves or reduced portions 22.

The operation of the device is as follows:—The cylindrical container is partially filled with water to which the soap is added. A child may then blow through the stem of the pipe to cause the soap to foam, and bubbles may now be blown. The pipe may be lifted by its stem 13 so that the cover 12 maintains its position on the stem and the bubbles blown with the cover on the stem. Thus the container may be readily covered. Should it be found that the cover interferes with the blowing of large bubbles it is merely necessary to attach the cover upon a rear portion of the stem 13^b by moving the lug 19 along the slot 20. If it is desired, the cover may be completely removed from the stem when the bubbles are being blown.

While I have illustrated and described the preferred embodiments of my invention, it is to be

understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claim.

5 Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:—

10 In a bubble pipe device, a cover for a container and having an opening offset from the center thereof, a stem passing through said opening and having peripheral grooves, and means for pivotally holding said cover in position on said

stem, comprising an inverted cup-shaped member fixedly mounted on said cover and having an opening aligned with said opening, a manually operable disc pivotally mounted between said cup-shaped member and the top of said cover, 5 said disc having a horn shaped opening consisting of a narrow portion adapted to engage said grooves to hold said cover in position and said narrow portion continuing at one end into an enlarged portion adapted to be aligned with said 10 openings to allow said stem to be removed from said cover.

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