M. Y. LUCAS.

BULB.

APPLICATION FILED MAY 3, 1917.

1,271,184.

Patented July 2, 1918.

FIG. 1.

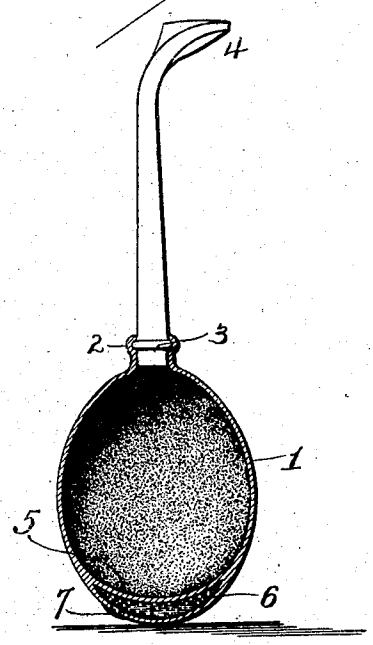
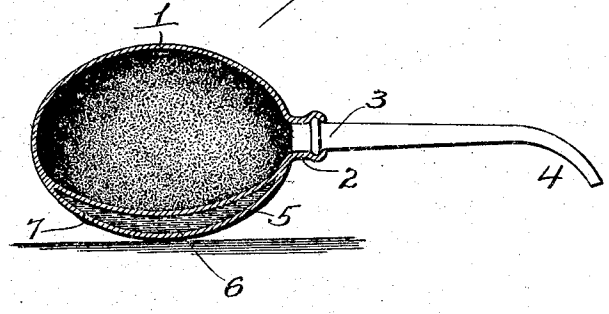


FIG. 2.



WITNESSES

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BULB.

1,271,184. Specification of Letters Patent. Patented July 2, 1918.

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To all whom it may concern:

Be it known that I, MARSHALL Y. LUCAS, a citizen of the United States, and a resident of Boise, in the county of Ada and State of Idaho, have invented certain new and useful Improvements in Bulbs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in bulbs, such as those which are made of rubber or other pliable material and adaptable for use with syringes, obtunders and similar devices.

It is well known that a light rubber bulb such as is in common and frequent use, tends constantly to tip over and roll around and that it is difficult readily to grasp owing to its being so easily moved. A source of great annoyance is thus occasioned to those who are constantly using a bulb, as in the case of a dentist, or a watch repairer, and it is an object of my invention to so improve a bulb as to obviate the annoyance and inconvenience to which I have above alluded.

A further object is to so construct a pliable bulb as to insure its stability when placed upon a table or other support, and at the same time not interfere with the accurate and efficient operation of the bulb when in use.

With these and other objects in view, the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings: Figure 1 is a sectional view illustrating an embodiment of my invention, and Fig. 2 is a similar view showing the application of my improvements to a syringe bulb.

1 represents a bulb which may be made of rubber or other pliable material such as used in the manufacture of bulbs for syringes and kindred devices. The bulb is provided at one end with a nipple 2 which receives a tube 3 provided with a suitable nozzle 4, through which air or water may be discharged from the bulb.

In the form of the invention shown in Fig. 1, the bulb is provided interiorly near its butt end, with a partition 5 of pliable material, thus forming a chamber 6 at the butt end of the bulb. An inlet opening 7 is provided in the wall of this chamber to facilitate the insertion of a heavy, readily movable material which will not interfere with the manipulation of the bulb when in use. The material which I prefer to employ in the chamber 6 is mercury, but other readily movable heavy material may be used,—such for example as small metal particles. After the weighty material shall have been inserted into the chamber 6, the inlet opening 7, may be sealed in any suitable manner.

With such construction as above described, the bulb and its attached nozzle tube will be caused to maintain a fixed upright position when placed upon a table or other support.

By providing the bulb with a weight in the form of a mass, the parts of which are readily movable with relation to each other, such will not interfere with the efficient operation of the bulb when in use.

When my improvements are applied to a syringe bulb, the chamber 6 containing the readily movable weighty material may be located in one side of the bulb as illustrated in Fig. 2.

Slight changes might be made in the details of construction of my invention without departing from the spirit thereof or limiting its scope and hence I do not wish to restrict myself to the precise details herein set forth.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is:—

1. A pliable bulb containing weighting material which is readily movable with its movement confined to a region of the bulb, all of which lies in one direction from the center of the bulb.

2. A pliable bulb provided with a separate chamber containing readily movable weighting material.

3. A pliable bulb provided with a separate chamber, and mercury contained in said chamber.

4. A pliable bulb provided therein with a pliable partition forming a separate chamber, and readily movable weighting material contained within said chamber.

5. A pliable bulb provided with an auxiliary chamber containing a heavy easily movable substance.

6. A pliable bulb provided with an auxiliary chamber having a filling opening, a heavy easily movable substance inserted into said chamber and means for sealing said filling opening.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

MARSHALL Y. LUCAS.

Witnesses:
J. L. NIDAY,
M. E. MALLOY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."