

No. 607,235.

Patented July 12, 1898.

J. HARDMAN, JR.
WATER BAG OR BOTTLE.
(Application filed Mar. 18, 1897.)

(No Model.)

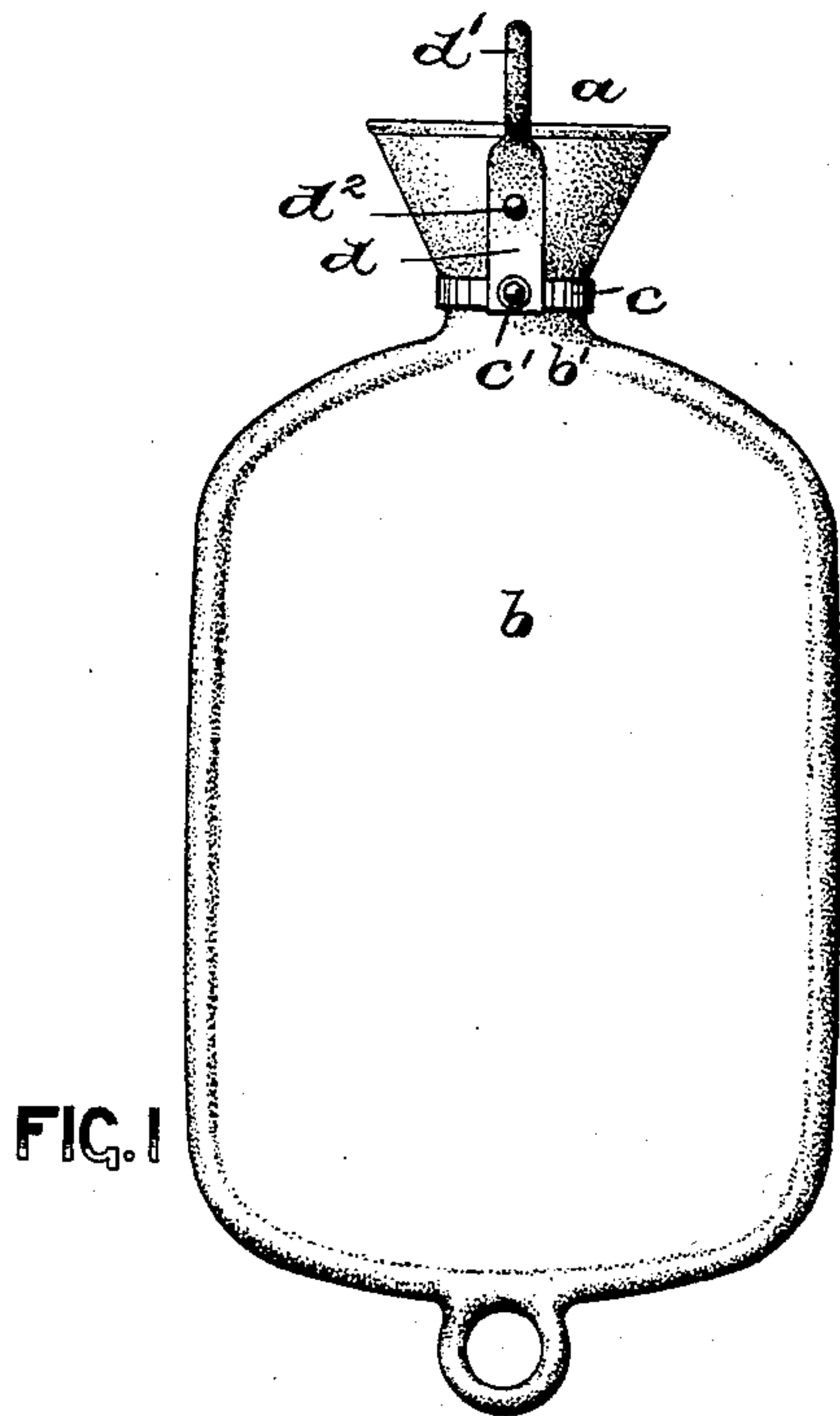


FIG. 1

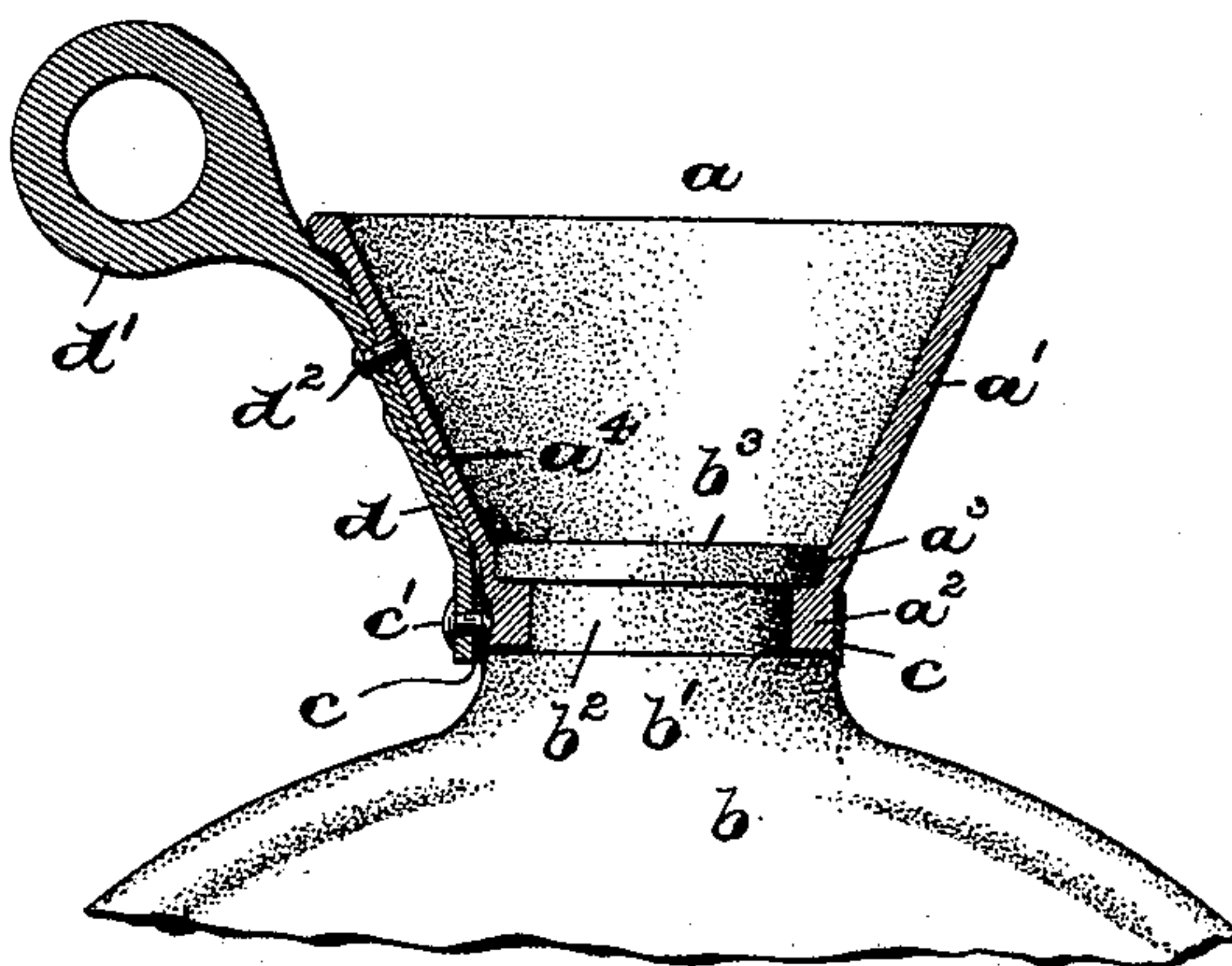


FIG. 2

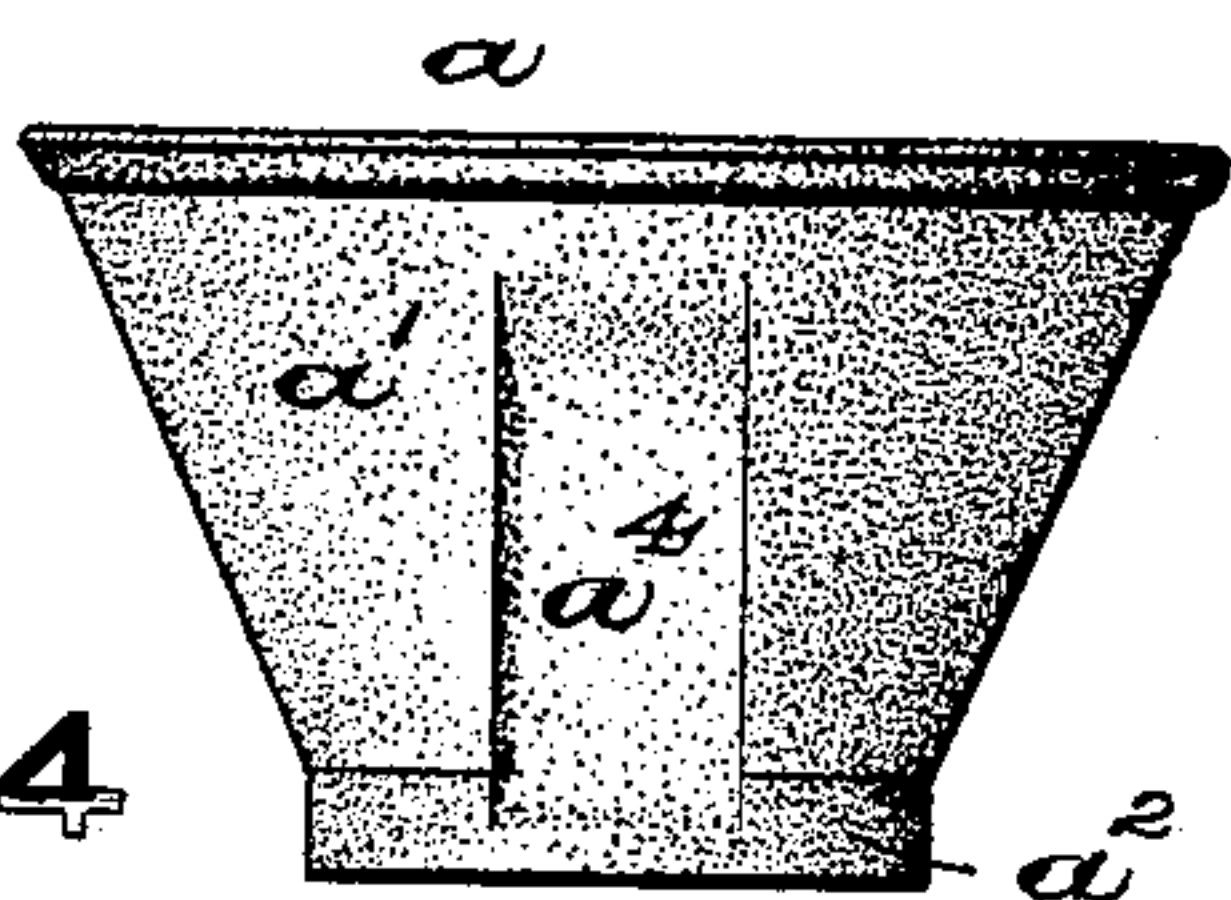


FIG. 4

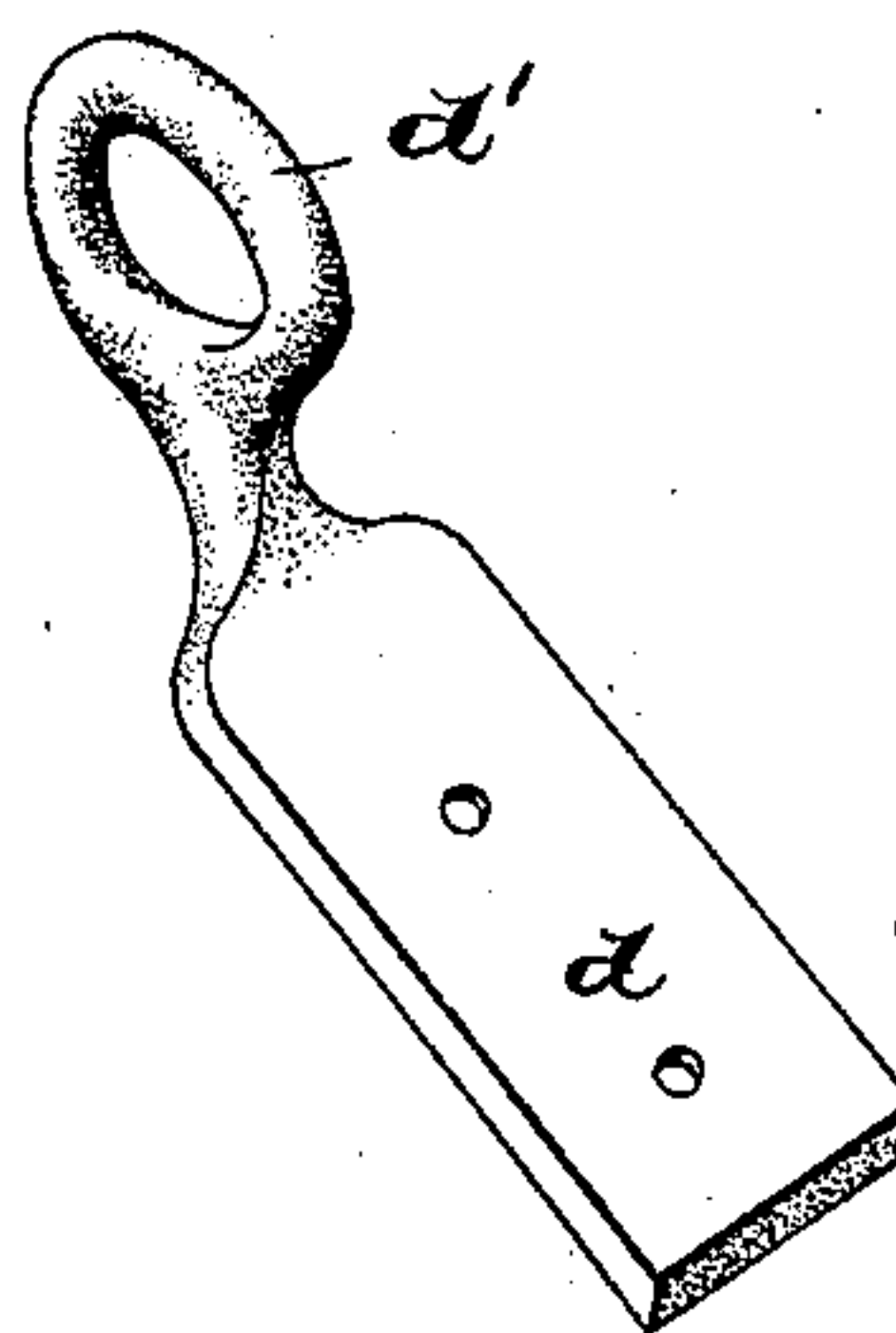


FIG. 3

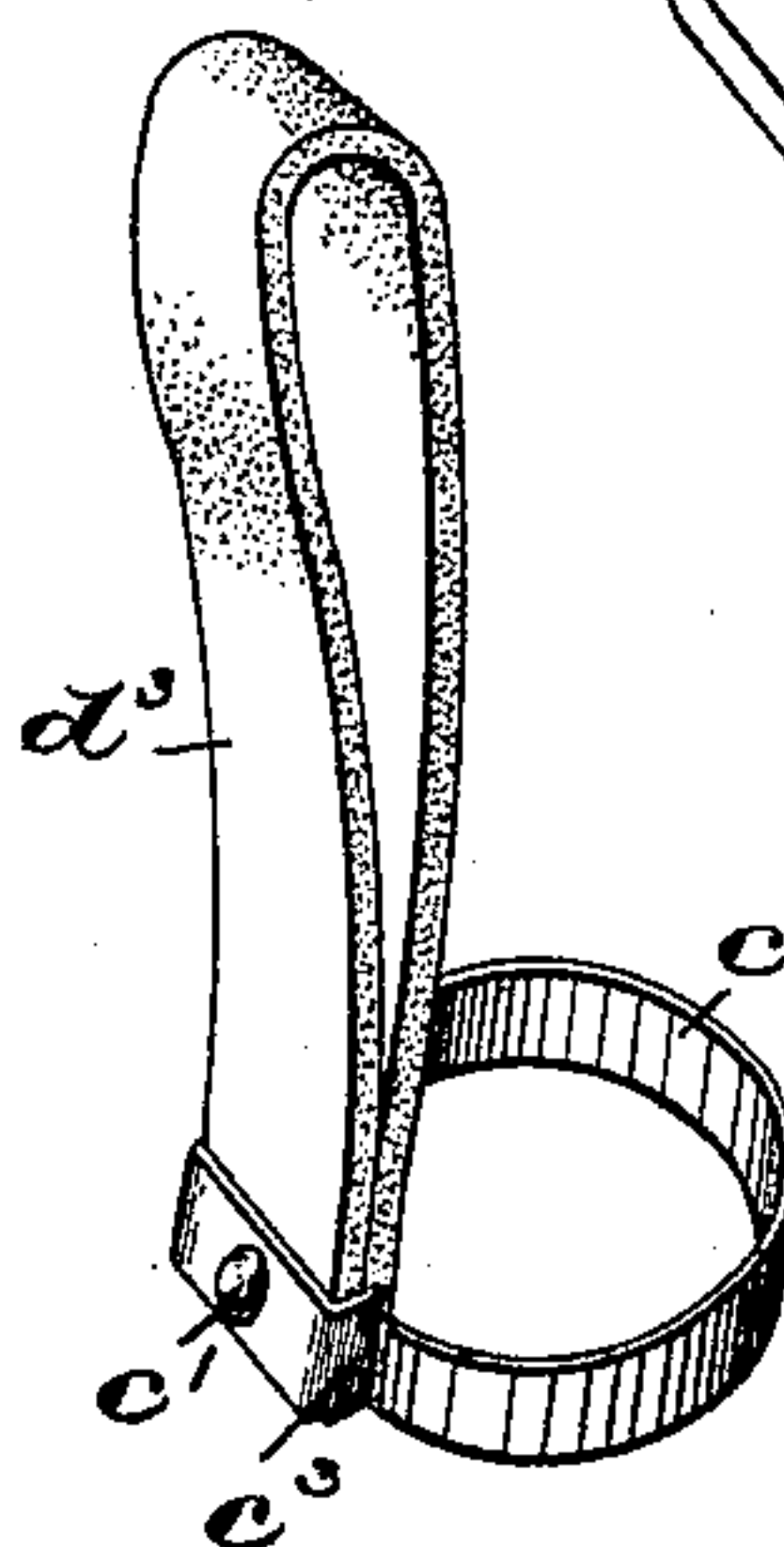


FIG. 6

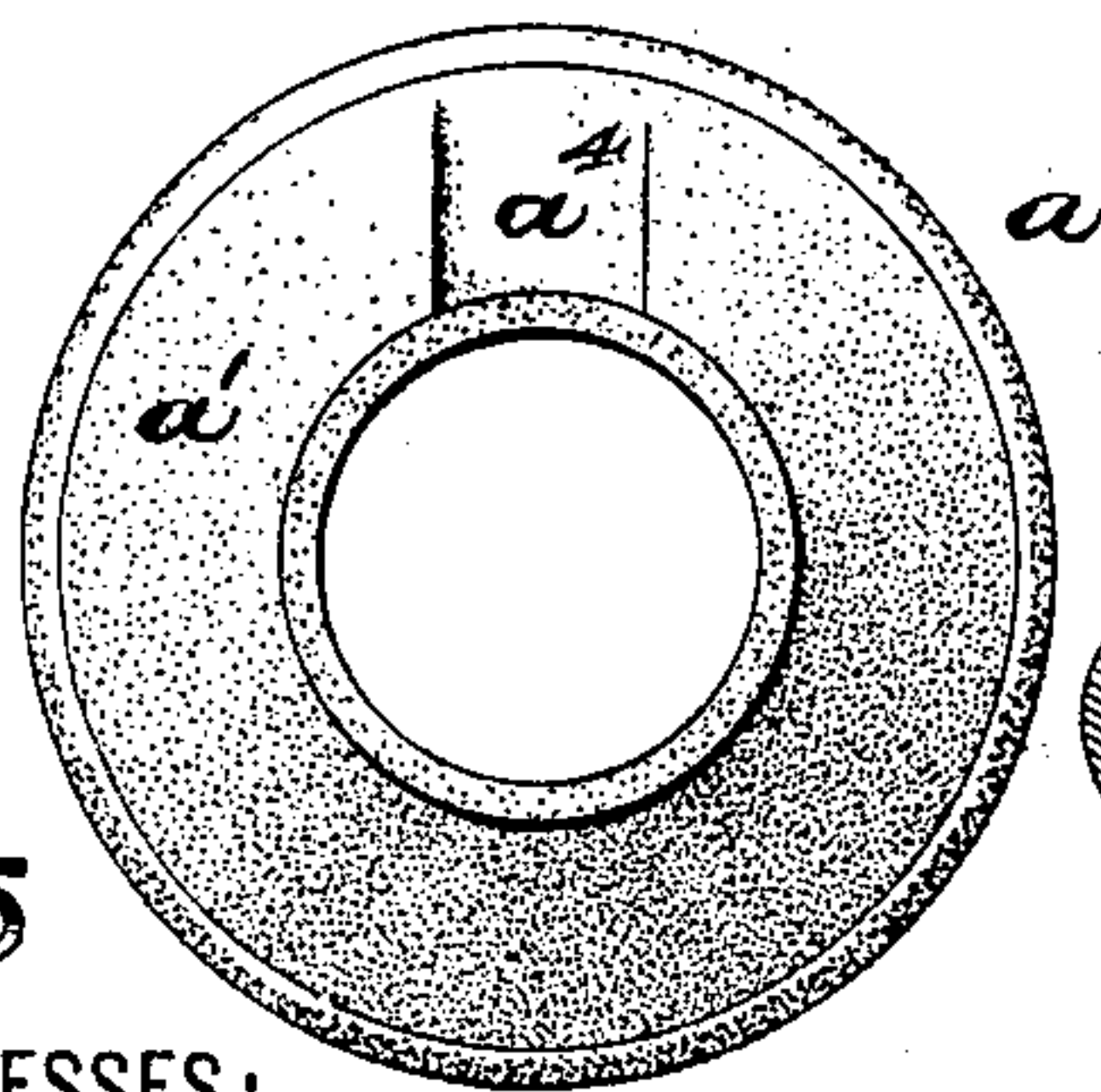


FIG. 5

WITNESSES:

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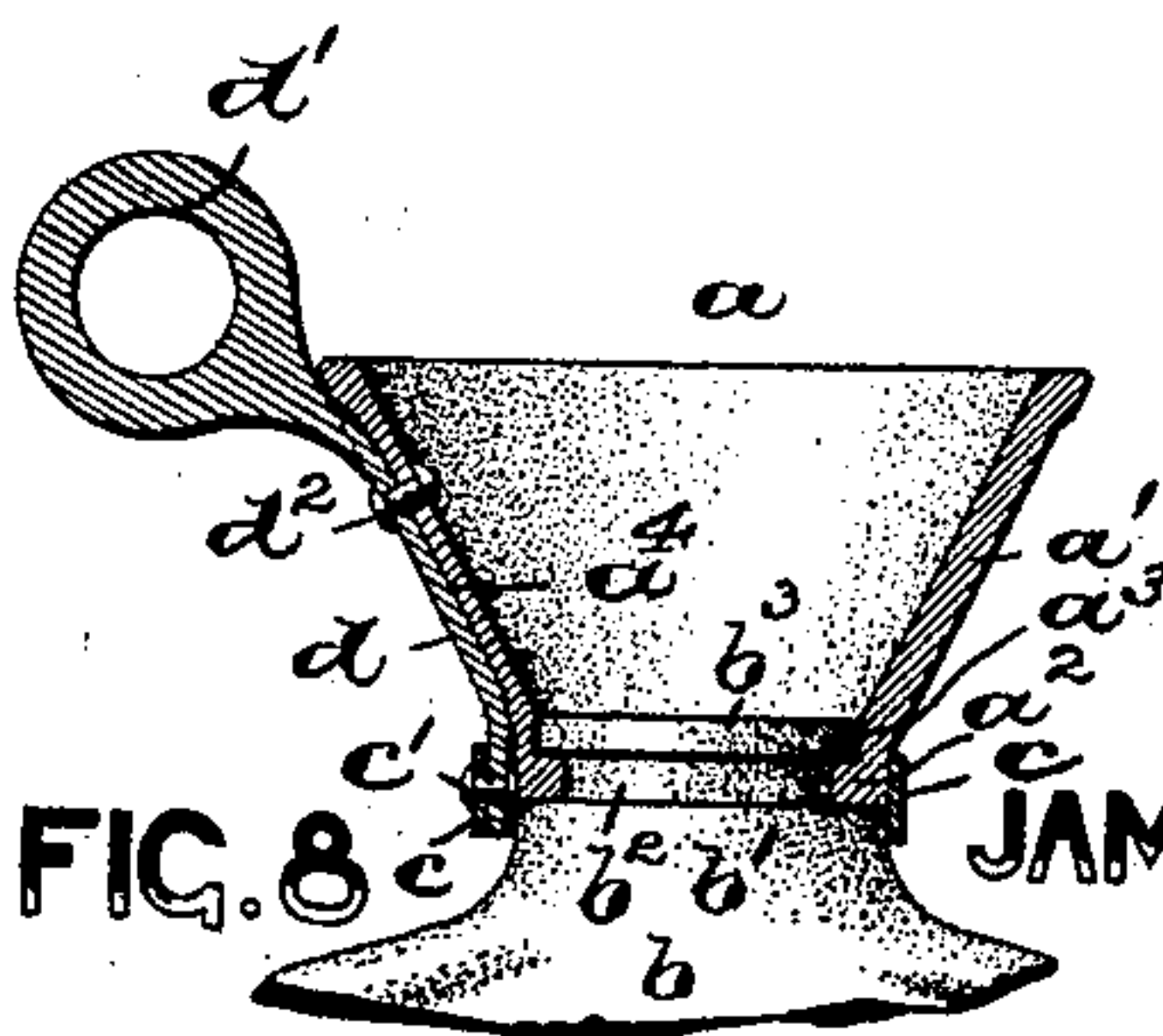


FIG. 8

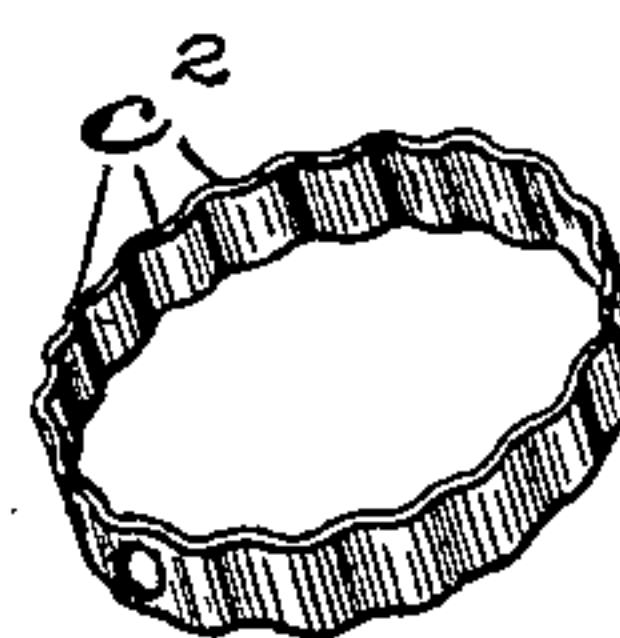


FIG. 7

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WATER BAG OR BOTTLE.

SPECIFICATION forming part of Letters Patent No. 607,235, dated July 12, 1898.

Application filed March 18, 1897. Serial No. 628,110. (No model.)

To all whom it may concern:

Be it known that I, JAMES HARDMAN, Jr., a citizen of the United States, residing at Belleville, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Water Bags or Bottles; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention has reference to improvements in water bags or bottles, and has for its primary object to provide a novel construction of water bag or bottle in which the body of the bag or bottle and the funnel-shaped mouth are molded in separate pieces and are detachably connected to form the complete bag or bottle.

A further object of this invention is to provide a mouthpiece for a water bag or bottle with a detachable handle, whereby the parts can be separated and replaced by new parts, should either of said parts become useless, with but very little trouble and expense.

The invention therefore consists in the novel construction of water bag or bottle and in the several arrangements and combinations of parts to be hereinafter fully described, and finally embodied in the clauses of the claim.

The invention is clearly illustrated in the accompanying sheet of drawings, in which—

Figure 1 is a view of the complete water bag or bottle embodying the principles of my present invention; and Fig. 2 is a sectional view, on an enlarged scale, of the funnel-shaped mouth and its handle in position on the top or neck of the bag or bottle. Fig. 3 is a perspective view of one form of handle to be used in connection with said funnel-shaped mouth. Fig. 4 is a side view, and Fig. 5 a top view, of the mouthpiece. Fig. 6 is a perspective view of a combined holding or clamping ring and loop or handle attached thereto, and Fig. 7 is a similar view of a clamping-

ring of a slightly-modified form of construction. Fig. 8 is a view, similar to that illustrated in Fig. 2, of the funnel-shaped mouthpiece and its handle secured to the neck of the water bag or bottle, all of a slightly-modified form of construction.

Similar letters of reference are employed in all of the above-described views to indicate corresponding parts.

Water bags or bottles as heretofore made consist of a bag portion and a funnel-shaped mouth molded together in one piece or molded separately and then cemented together to form one integral piece; but with constant use bags or bottles when made in this manner will soon become useless, in that the mouthpiece thereof becomes soft and loses its rigidity, or it will crack while the main body or bag proper is still perfectly good. It is to overcome this serious objection that I have constructed a water bag or bottle with a detachable mouthpiece which can be replaced when unfit for further use, said mouthpiece being operatively connected to the neck of the bag or bottle by means of a clamping-ring or other suitable holding means.

In the accompanying drawings, *b* indicates a flexible water bag or bottle of rubber or the like, which is molded with the neck *b'* and preferably formed with an annular rim *b³*, surrounding the opening in the neck of the bag, and with an annular recess *b²*, substantially as illustrated in Figs. 2 and 8. The opening in said neck of the bag or bottle *b* is provided with the usual form of stopper, as will be clearly understood.

The funnel-shaped mouth (indicated by the reference-letter *a*) to be used in connection with the water bag or bottle consists, essentially, of a cone-shaped portion *a'*, molded at the bottom with an annular flange *a²*, having a recessed portion *a³* on its inner side, substantially as shown in said Figs. 2 and 8, and in the outer surface of said portion *a'* is a suitable groove *a⁴*, as clearly illustrated in Figs. 4 and 5.

Secured to a suitable ring *c*, preferably made of sheet metal or cut from a piece of tubing or made of hard rubber or any other

suitable material, to the outer surface of said ring, as in Fig. 2, or to the inner surface of the ring, as in Fig. 8, by means of a rivet or pin c' , is a suitable lift or handle d , molded with a finger-piece d' , as clearly illustrated in Fig. 3.

To secure the funnel-shaped mouthpiece a to the bag proper, said ring c is first slipped over the neck of the bottle, so that it will rest directly below the annular recess b^3 in said neck. The flexible mouthpiece a is then forced over the neck of the bag or bottle b until its flange a^2 will spring into and fit in said annular recess b^2 , and the rim b^3 of the neck of said bag or bottle will fit snugly into the recessed portion a^3 in the said mouthpiece a . The clamping-ring c and its lift or handle are now pulled up, by hand or by means of a suitable tool, until said parts assume the positions illustrated in the drawings, whereby the flange a^2 of the mouthpiece a will be securely held in its clamped position in the bead b^3 of the neck of the bag or bottle. The main portion of said handle or lift d is placed in such a position when these parts are assembled that it rests directly in the groove a^4 in the outer surface of said mouthpiece, as clearly shown. A rivet or pin d^2 may then be employed for securing the lift or handle d permanently to the mouthpiece; but said rivet or pin d^2 is not absolutely necessary and may be dispensed with, if desired, or any other suitable fastening means whereby the lift or handle is detachably connected with mouthpiece may be employed.

In place of the form of ring c illustrated in Figs. 1, 2, 6, and 8 said ring may be provided with corrugations c^2 , as indicated in Fig. 7, or said ring may be made in any other suitable and well-known manner; and in lieu of the lift or handle illustrated more especially in Fig. 3 I may employ an ordinary loop d^3 , which is secured to the ring c by means of the rivet c' , which is passed through said ring, and a plate c^3 , employed to cover the free ends of said loop d^3 .

From the above description it will be seen that by this arrangement and construction of the several parts a cheaply-constructed, neat, and very effective water bag or bottle is the result.

The ring or clamping device, which is preferably made from sheet metal, produces a very light and ornamental fitting.

I am fully aware that changes may be made in the arrangements and combinations of the parts, as well as in the details of the construction thereof, without departing from the scope of my present invention. Hence I do not limit myself to the exact arrangements and combinations of the parts and the details of

construction thereof as herein set forth, and illustrated in the drawings.

Having thus described my invention, what I claim is—

1. A water bag or bottle, consisting, essentially, of a main body b having a neck b' , an annular bead b^3 and recess b^2 , and a separate and detachable mouthpiece a having an annular flange a^2 and recessed portion a^3 , adapted to fit into said recess and over said bead on said neck b' , substantially as and for the purposes set forth.

2. A water bag or bottle, consisting, essentially, of a main body b having a neck b' , an annular bead b^3 and recess b^2 , and a separate and detachable mouthpiece a having an annular flange a^2 and recessed portion a^3 , adapted to fit into said recess and over said bead on said neck b' , and a clamping or holding ring or band c , substantially as and for the purposes set forth.

3. A water bag or bottle, consisting, essentially, of a main body b having a neck b' , an annular bead b^3 and recess b^2 , and a separate and detachable mouthpiece a having an annular flange a^2 and recessed portion a^3 , adapted to fit into said recess and over said bead on said neck b' , a clamping or holding ring or band c , and a lift or handle attached to said ring or band, substantially as and for the purposes set forth.

4. In a water bag or bottle, in combination, with the main body thereof, formed of a plastic and pliable material, of a detachable funnel-shaped mouthpiece, adapted to be arranged over the neck of the bottle, and having a groove a^4 , a ring or band for detachably securing said mouthpiece to said neck of the bag or bottle, and a lift or handle attached to said ring or band, said lift or handle being fitted in said groove and secured therein, substantially as and for the purposes set forth.

5. In a water bag or bottle, in combination, with the main body thereof, of a detachable funnel-shaped mouthpiece, adapted to be arranged over the neck of the bottle, and having a groove a^4 , a ring or band for detachably securing said mouthpiece to said neck of the bag or bottle, a lift or handle attached to said ring or band, said lift or handle being fitted in said groove, and a rivet or pin d^2 for securing said lift or handle in said groove, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 15th day of March, 1897.

JAMES HARDMAN, JR.

Witnesses:

FREDK. C. FRAENTZEL,
WM. H. CAMFIELD, Jr.