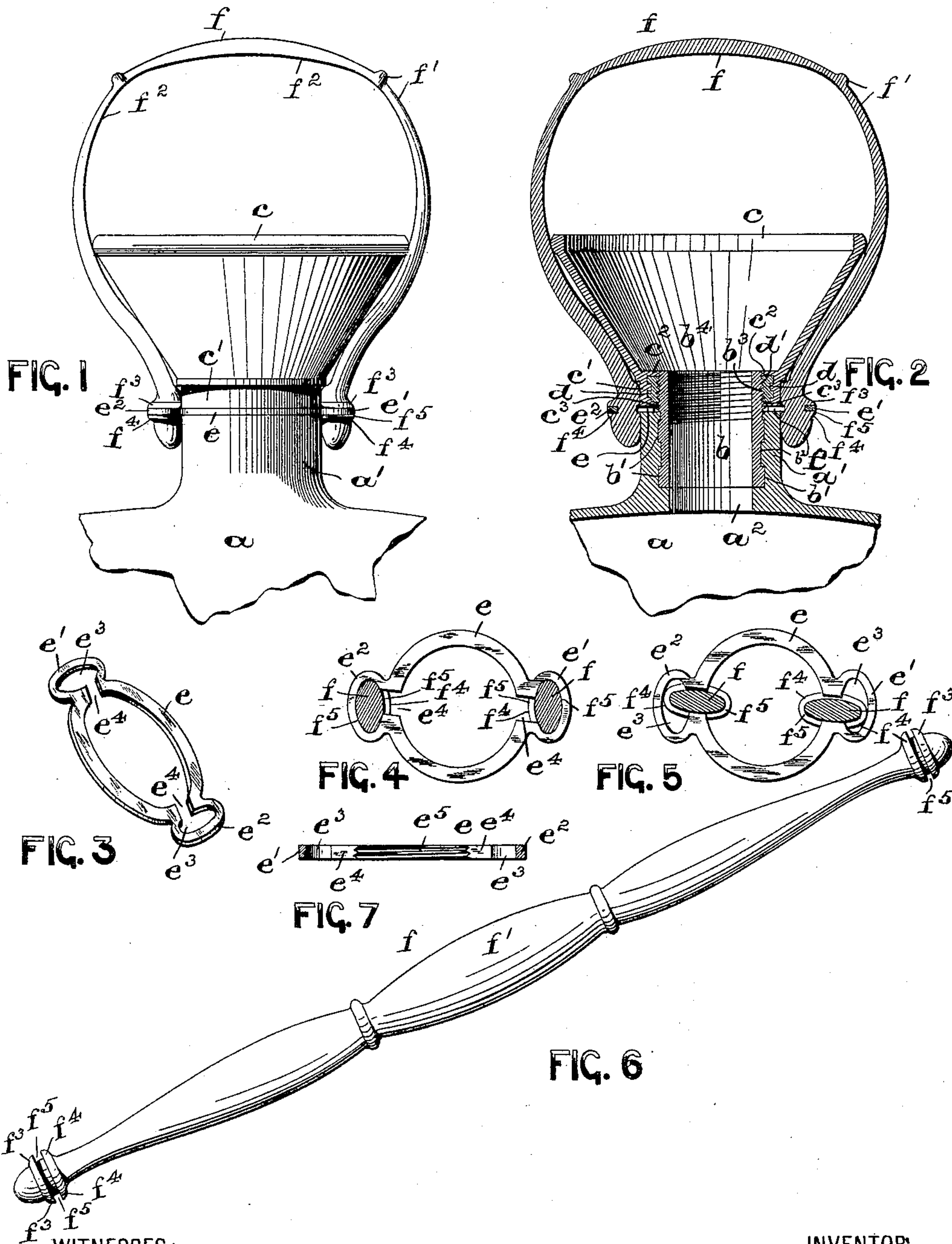


**No. 607,236.**

**Patented July 12, 1898.**

**J. HARDMAN, JR.**  
**WATER BAG OR BOTTLE.**  
(Application filed Nov. 5, 1897.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JAMES HARDMAN, JR., OF BELLEVILLE, NEW JERSEY.

## WATER BAG OR BOTTLE.

SPECIFICATION forming part of Letters Patent No. 607,236, dated July 12, 1898.

Original application filed August 2, 1897, Serial No. 646,797. Divided and this application filed November 5, 1897. Serial No. 657,464. (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 relates to improvements in water bags or bottles and is a division of my previous application for improvements in water bags or bottles filed August 2, 1897, Serial No. 646,797.

My present invention has for its principal object to provide a water bag or bottle made of a flexible plastic material, as rubber or the like, with a detachable and flexible funnel-piece and a detachable handle for the bag or bottle, the said handle being independent and separate of the funnel-piece.

The invention therefore consists in the several novel arrangements and combinations of parts and the details of the construction thereof, all of which will be fully described in the accompanying specification and finally embodied in the clauses of the claim.

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

Figure 1 is a side view of the neck or mouth of a portion of a flexible water bag or bottle provided with a detachable funnel and a separate and detachable handle, and Fig. 2 is a vertical section of the several parts illustrated in said Fig. 1. Fig. 3 is a perspective view of a flat ring to be used in connection with the detachable handle; and Figs. 4 and 5 are two plan views of said ring, with the end portions of the detachable handle represented in horizontal cross-section, Fig. 4 illustrating the end portions of the handle in their operative holding engagement with said ring and Fig. 5 representing the said end portions of the handle in the act of being placed in their

operative holding engagement with the ring. Fig. 6 is a view of the handle when detached from the ring, and Fig. 7 is a vertical cross-section of a ring of a slightly-modified form of construction.

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

In said drawings, *a* indicates the body of the water bag or bottle, and *a'* is the neck or mouth of the same, and secured in the opening *a*<sup>2</sup> of said neck, with its upper end projecting therefrom, is a metallic or hard-rubber or other tubular fitting *b*, which may be provided with annular projections *b'* and grooves or depressions *b*<sup>2</sup>, around which the neck of the bag or bottle *a* is molded or vulcanized; but said fitting *b* may be secured in the mouth of the bag or bottle in any other well-known manner, as will be clearly evident. The upper and outer surface of said fitting *b* is provided with a suitable screw-thread *b*<sup>3</sup>, and on the inner surface of said fitting is a screw-thread *b*<sup>4</sup> for the reception of the usual form of cap or stopper, whereby the neck of the bag or bottle can be closed. Detachably arranged upon said screw-threaded portion *b*<sup>3</sup> of the fitting *b* is a flexible funnel *c*, the cylindrical portion *c'* of which is molded or vulcanized around a metallic or hard rubber fitting or collar *d*, provided with the internal screw-thread *d'* in such a manner that the soft-rubber portions *c*<sup>2</sup> and *c*<sup>3</sup> formed directly above and below the respective ends of said collar embed said collar *d* in the inner part of the portion *c'* of said funnel *c*. Upon said fitting *b* and between the upper edge of the mouth of the bag or bottle and the lower edge of the funnel I have arranged a suitable ring *e*, made either of hard rubber or metal, which is thus held in place on the neck of the bag or bottle *a* when the funnel *c* is screwed down in place. Said ring *e*, as will be more especially seen from Fig. 3, has a pair of holding portions *e'* and *e*<sup>2</sup>, which are provided with suitably-formed openings *e*<sup>3</sup> and the slotted or cut-away parts *e*<sup>4</sup> for establishing a communication between said openings *e*<sup>3</sup> and the larger or main opening of the ring.



If desired, the larger opening of the ring *e* may be provided with a screw-thread *e*<sup>5</sup>, whereby said ring can be screwed directly upon the threaded end portion *b*<sup>3</sup> of the fitting *b* and is held in place, although the funnel portion *c* has been unscrewed.

A strip or band *f* is employed in connection with the ring *e*, which may have an ornamented upper surface *f*<sup>1</sup> and is preferably flat on its underside *f*<sup>2</sup>. At each end of said strip or band, which is preferably of a flexible material, such as rubber or the like, there are a pair of raised portions forming ribs *f*<sup>3</sup> and *f*<sup>4</sup>, and between the said ribs there is a suitable groove *f*<sup>5</sup>, as will be clearly seen from an inspection of Fig. 6. To secure the ring *e* to this strip *f*, which is to form the handle or lift of the bag or bottle, the said ends of the strip are passed from the large opening of the ring *e* through the cut-away parts *e*<sup>4</sup>, as illustrated in Fig. 5, and turned into the openings *e*<sup>3</sup> of the respective holding portions *e*<sup>1</sup> and *e*<sup>2</sup> of the ring *e*. In this manner the raised portions *f*<sup>3</sup> and *f*<sup>4</sup> will be arranged on the opposite sides of the respective holding portions *e*<sup>1</sup> and *e*<sup>2</sup> of the ring, and the latter, with said handle *f*, can now be placed over the fitting *b* down upon the neck of the bag or bottle *a* and the funnel portion *c* screwed upon the said fitting *b* in the manner hereinabove stated to securely retain said ring *e* and its strip *f* in place, and the bag or bottle can be safely carried from place to place.

From the above description it will be seen that the funnel *c*, as well as the handle *f*, can be easily and quickly detached from the neck of the bottle or bag *a* and replaced should they have become useless by constant use. Furthermore, at the same time, the ring *e*, as well as the handle, serves to provide an ornamental feature to the bag or bottle.

Of course I am aware that changes may be made in the details of the construction of the parts and in the several arrangements and combinations of the same without departing from the scope of my invention. Hence I do not limit myself to the exact arrangements and combinations of the several parts as

herein set forth and illustrated in the accompanying drawings.

Having thus described my invention, what I claim is—

1. In a water bottle or bag, the combination, with the neck thereof, and a detachable funnel portion, of a ring on said neck, and a handle piece or strip detachably connected with said ring, said funnel-shaped portion serving to hold said ring in position on the neck of the bottle, when said portion is in position thereon, substantially as and for the purposes set forth.

2. In a water bag or bottle, the combination, with the neck thereof, and a detachable funnel portion, of a ring on said neck having holding portions, and a handle piece or strip detachably connected with said holding portions on said ring, said funnel-shaped portion serving to hold said ring in position on the neck of the bottle, when said portion is in position thereon, substantially as and for the purposes set forth.

3. In a water bag or bottle, the combination, with the neck thereof, and a detachable funnel portion, of a ring *e*, having holding portions *e*<sup>1</sup> and *e*<sup>2</sup> provided with openings *e*<sup>3</sup> and cut-away parts *e*<sup>4</sup>, and a handle-piece *f*, having ribs *f*<sup>3</sup> and *f*<sup>4</sup> formed with grooves *f*<sup>5</sup> between them, for securing the ends of said handle-piece in said holding portions of the ring, substantially as and for the purposes set forth.

4. In a water bottle or bag, the combination, with a ring *e* having slotted holding portions, of a handle piece or strip, and grooved end portions on said piece or strip, adapted to be detachably connected with the slotted holding portions of said ring, 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 3d day of November, 1897.

JAMES HARDMAN, JR.

Witnesses:

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