

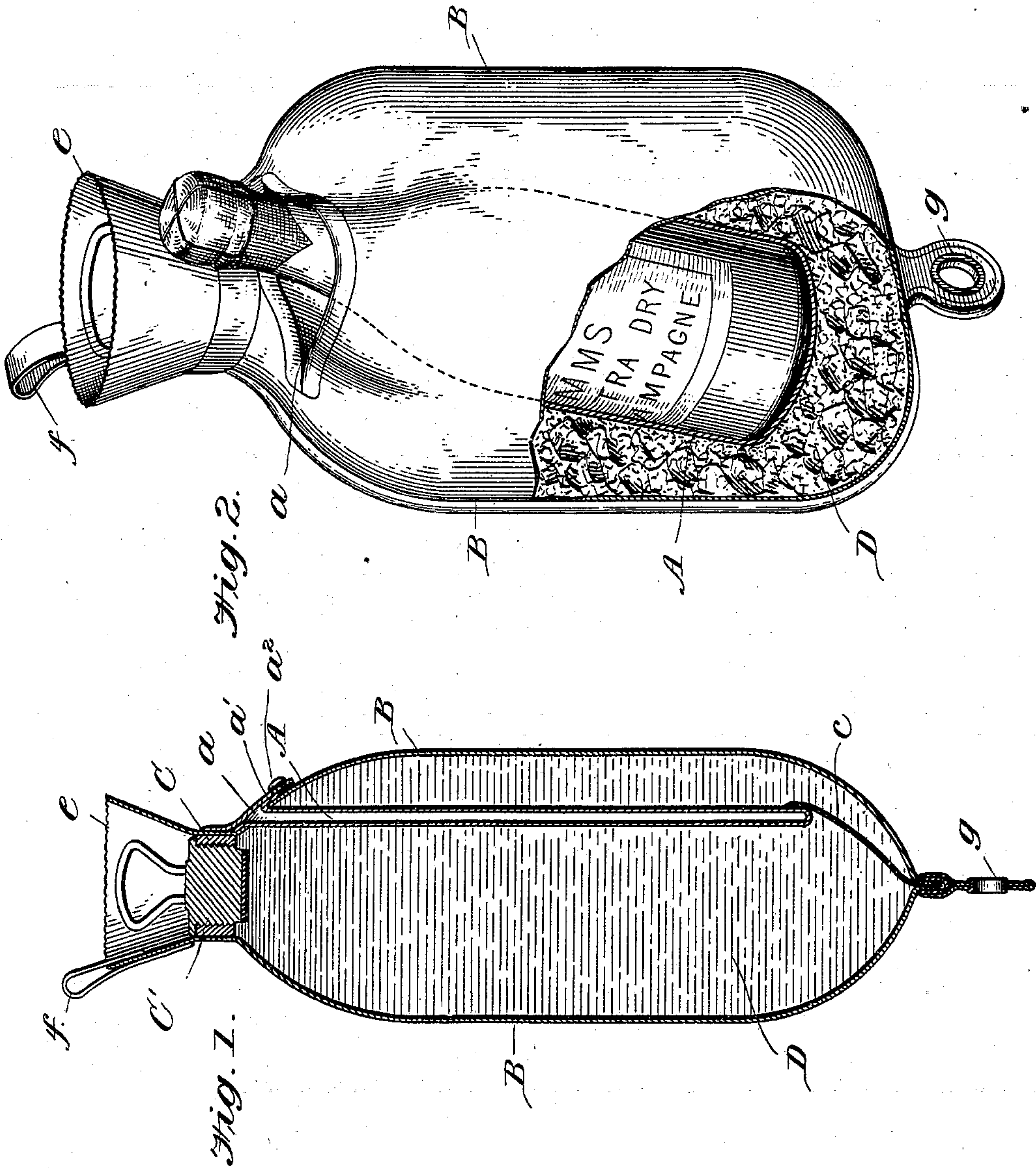
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Patented June 19, 1900.

C. T. BRADSHAW.
FLEXIBLE WATER TIGHT BAG.

(Application filed Jan. 24, 1900.)

(No Model.)



Witnesses.
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FLEXIBLE WATER-TIGHT BAG.

SPECIFICATION forming part of Letters Patent No. 651,819, dated June 19, 1900.

Application filed January 24, 1900. Serial No. 2,618. (No model.)

To all whom it may concern:

Be it known that I, CHARLES T. BRADSHAW, a citizen of the United States, and a resident of the city of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Flexible Water-Tight Bags for Heating or Cooling Bottles, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention has relation to flexible water-tight bags for receiving and containing bottles and other vessels for heating or cooling purposes; and it consists in the invention hereinafter described, comprising, broadly speaking, a pocket having an externally-opening mouth, said pocket being surrounded by a flexible casing or bag, forming a chamber between the exterior walls of the pocket and the interior walls of the said bag or casing for the reception of a heating medium—such as hot water, &c.—or a cooling medium—such as ice, cold water, &c.—for heating or cooling the vessel or package contained in the pocket, thus forming heating or cooling walls around said pocket.

In the accompanying drawings, Figure 1 is a sectional view of my invention, showing the pocket in its collapsed position surrounded by the water in the exterior casing—as, for instance, hot water for heating purposes. Fig. 2 is a perspective view, partially in section, illustrating the pocket containing a bottle surrounded and incased in cracked ice, which is held within the walls of the outer casing, as for cooling purposes.

The pocket A, of flexible material, has an exteriorly-open mouth *a* and is suspended in the bag or casing B, preferably of rubber or other suitable flexible material. The edges of the mouth *a* of the pocket A are cemented or otherwise secured to the walls of the casing B at or near its upper portion, so as to form a water-tight joint. The pocket A is preferably of a length slightly less than the length of the outer bag or casing and of a width slightly less than the width of the said bag or casing. A screw-threaded nozzle C, preferably of ordinary construction, is provided in the upper portion of the casing B, to which is adapted a screw-threaded stopper

C' for the purpose of introducing the water or ice within the chamber D and securing it there in a water and air tight condition. A collar *e*, of flexible material, is preferably provided around the nozzle C, flared to operate as a funnel in filling, to which is also attached, as in ordinary hot-water bags, a loop *f* for suspending the device upon a hook or nail, and a depending eye or loop *g* is secured at the lower portion of the casing B for steadying or more securely supporting the device in a suspended position. The pocket A is preferably constructed of a size large enough to hold a nursing-bottle of ordinary capacity, as for heating purposes, or large enough to contain a pint bottle, as of champagne or other wine, for cooling purposes. This pocket A, as previously stated, is preferably of flexible material, so as to adapt itself to a greater or less degree to the shape of the bottle or vessel introduced therein. If made of soft rubber, the pocket will stretch slightly to accommodate itself to the size of the bottle or vessel introduced.

It is clear that in this construction described a readily-foldable heating and cooling pocket is provided in compact form for efficiently heating nursing-bottles, for instance, or keeping champagne cool, as in the sick-room, or for ordinary household purposes and any general uses to which it may be adapted. In this construction of collapsible heating and cooling pocket illustrated in the drawings heating or cooling walls are provided on all sides (except the mouth portion) of the bottle or vessel to be heated or cooled, and a small quantity of hot water or cracked ice provided in the chamber D forms heating or cooling walls around all sides of the vessel and will produce most efficient and economical results.

A hinged flap *a'* is preferably provided over the mouth *a* of the pocket A, as shown in Fig. 1, cemented or otherwise secured at its upper edge about the nozzle portion of the casing B to retain the heat in the pocket when in use. This flap *a'* is fastened when in the closed condition by buttoning it on the stud *a²* when the bottle or package being heated is not so long as to protrude through the mouth. I also preferably provide a strap *c*, attached to the lower portion of the pocket A and se-

cured at its other end to the inner wall of the lower portion of the casing B, so as to prevent the pocket A from falling against the inner side walls of the casing B when laid on its side or out of the perpendicular, thus insuring a water or ice wall at all times and conditions on both sides of the pocket.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, a flexible water-tight bag for heating or cooling purposes, comprising an outer waterproof bag provided with a nozzle and stopper, a flexible pocket, A, attached at its mouth portion to the outer wall of the bag, said pocket extending within the outer bag and having a water-space entirely surrounding the same, and a strap, c, secured to the bottom of the pocket and to the inner bottom wall of the bag for preventing the pocket from falling against the inner wall of the casing, substantially as described.

2. As a new article of manufacture, a flexible water-tight bag for heating or cooling purposes comprising an outer waterproof bag provided with a nozzle and stopper, a flexible pocket, A, attached at its mouth portion to

the wall of the bag having a water-space entirely surrounding the same, a strap, c, secured to the bottom of the pocket, A, and to the inner bottom wall of the bag, an enlarged mouth, a, at the upper end of the pocket, and a flap, a', provided for sealing the mouth of the pocket and retaining the heat in same, substantially as described.

3. As a new article of manufacture, a flexible water-tight bag for heating and cooling purposes, comprising an outer waterproof bag, B, provided with a nozzle and stopper, a flexible pocket, A, attached at its mouth portion to the wall of the bag and extending within the same, having a water-space entirely surrounding said pocket, an enlarged mouth, a, formed at the upper end of the pocket, a flap, a', secured at one edge to the outside of the bag, B, adapted to cover the mouth, a, and a fastening device, a², for securing said flap in closed position, substantially as described.

In witness whereof I have hereunto set my hand this 23d day of January, A. D. 1900.

CHARLES T. BRADSHAW.

Witnesses:

CHARLES A. STOCKWELL,
MARY F. LYONS.