

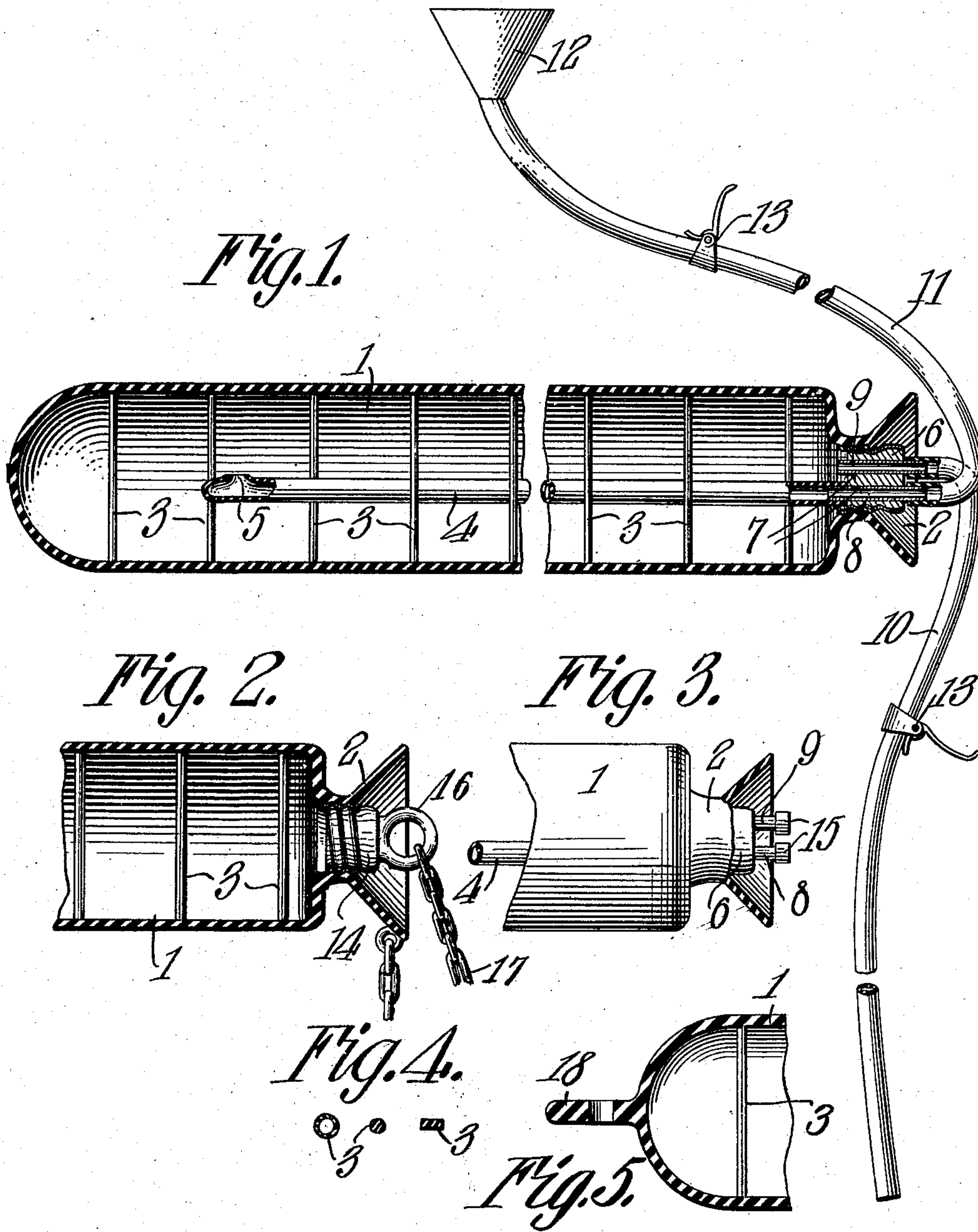
D. SMITH.

WATER BAG.

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916,046.

Patented Mar. 23, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

DANIEL SMITH, OF COTULLA, TEXAS.

WATER-BAG.

No. 916,046.

Specification of Letters Patent.

Patented March 23, 1909.

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To all whom it may concern:

Be it known that I, DANIEL SMITH, a citizen of the United States, residing at Cotulla, in the county of Lasalle and State of Texas, have invented a new and useful Water - Bag, of which the following is a specification.

This invention relates to improvements on what may be termed water bags for water treatment.

It has for its object, principally in connection with the treatment of ailments of the body, such as aches and pains, forms of congestion, and so forth, the retention of the surface of the bag or receptacle flush, or in contact throughout, with the body of the patient; also, to provide for the carrying out of such purpose in a simple, economical and expeditious manner.

It also has for its object to provide for maintaining the water or contents of the receptacle or bag at the desired temperature, and for raising or lowering said temperature as may be desired; also to provide for the delivery of the water or other liquid into said bag and for the withdrawal thereof in an expeditious and simple manner.

In the accompanying drawings illustrating the preferred embodiment of the invention, Figure 1 is a longitudinal section thereof. Fig 2 is a corresponding broken section of the same in modified form, an ordinary stopper or cork being substituted for the adjunctive parts of said bag disclosed in the opposite view. Fig. 3 is a broken side view of the form of bag shown in Fig. 1, with the filling and emptying tubes removed. Fig. 4 represents a series of cross sections of the means for the retention of the sides of the bag or receptacle in substantially parallel planes. Fig. 5 is a fragmentary detail view of a portion of the receptacle.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

In carrying out my invention I employ a bag or receptacle 1 which may be made of any suitable material, or combination of materials, embracing the requisite elasticity and strength, one end of which bag is preferably rounded, as disclosed, while the other end is provided with a neck 2, the furnishing of which will be presently disclosed for the intended purposes of the bag. Said bag has its opposite sides constituting

the upper and lower surfaces thereof, when in use upon the body of the patient, connected or secured together by threads or reinforcing members 3 which may be round, tubular, or rectangular in cross section, and of any suitable material embodying the requisite strength and durability, said reinforcing members or threads being arranged at suitable intervals throughout the length and breadth of bag, at, say, three-quarters of an inch apart each way, making one thread on each square three-quarters of an inch from the sides throughout the entire bag, or at any other suitable distance found practical. Said bag or receptacle may be lined or provided upon its surface with a netting or cloth, or any other suitable material which may be utilized in securing the ends of said reinforcing members in position to said bag. It will be seen that by means of this arrangement, the opposed sides of the bag or receptacle may be maintained substantially in parallel planes throughout its length, and the purpose of which is to present a continuous unbroken surface thereof to the body of the patient, which, of course, promotes effectiveness in the treatment of the latter, as practiced in water cure.

For facilitating the delivery of the water into said receptacle or bottle, I employ a tube 4 which is adapted to extend some distance into the interior of the bottle and having near its extreme inner end a delivery opening 5. Also inserted in the neck 2 of said bottle or bag is a plug 6 of suitable material adapted to be screwed or otherwise secured in said neck, and having longitudinal openings 7 therethrough, said openings being equipped with tubes 8 and 9 to the inner projecting ends of one of which is fitted the receiving end of the delivery tube 4 for its suitable retention in place in the bag. To the outer ends of the tubes 8 and 9 are suitably applied the inner ends of two additional tubes 10 and 11, respectively, preferably of rubber or other suitable material, the tube 11 having a funnel-shaped receiving end 12 for the convenience in passing water thereinto, as in filling the bottle. The tube 10 is for emptying the bottle of its contents when desired, or for withdrawing the water gradually therefrom as the temperature may require, while additional water is being poured into the tube 11 for maintaining or changing the temperature of the water either hot or cold, as may be re-

quired, whereby it is apparent that the receptacle or bag may be retained in position upon the patient without requiring its removal in effecting the replenishing or supplying said receptacle or bag with water. After the suitable filling or changing of the temperature of the water, the tubes 10 and 11 may be suitably closed by clamping devices 13 placed thereon, the same being actuated to effect the closing of said tubes, as will be apparent. If, however, it may not be desired to use the filling and emptying tubes 10 and 11 in connection with the bag or receptacle, together with the tube 4 and the plug 6, in lieu thereof the neck of the bottle may be closed by an ordinary plug or cork 14, as disclosed in Fig. 2. Also, when the tubes 10 and 11 are not in use after the bottle has been filled, or the water changed therein, as above described, the tubes 8 and 9 may be closed by the use of caps 15, as disclosed in Fig. 3.

To facilitate the removal and the positioning of the plugs 6 and 14, and also to prevent their loss, a fingerhold, in the nature of a rigid eye 16, is secured to each plug, and to this is connected one end of a length of chain 17, the other end of which is secured in any preferred manner to the neck of the bottle. To avoid confusion, the eye is shown assembled only with the stopper or plug 14, and is omitted in connection with the plug 6.

As is usual with devices of this character,

it is advantageous to suspend them after use, to permit draining, and to secure this result the bag has connected with the end opposite that carrying the neck an orificed tab 18. 35

It will be appreciated that the leading features of this invention reside in effecting the retention of the opposed walls of the receptacle or bag in parallel planes, and of gradually changing the contents of the bag so as to maintain the same temperature throughout any desired period of time, or to change the temperature, as may be desired. 40

I claim:— 45

A water bag having its opposed walls suitably reinforced for retention in substantially parallel planes, a plug inserted in the neck portion thereof, tubes arranged within the plug and extending beyond each end thereof, a water delivery pipe having one end secured to the inner end of one of the tubes and its other end provided with a laterally discharging outlet arranged at a point intermediate of the ends of the tube, and caps serving to seal the bag when the same is to be used as an ordinary water bottle. 50 55

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

DANIEL SMITH.

Witnesses:

E. E. OLIVER,
V. SMITH.