(No Model.)

H. WEINHAGEN & F. KING.

THERMOMETER ATTACHMENT FOR HOT WATER BAGS, &c.

No. 522,866. Patented July 10, 1894.

Fig. 4

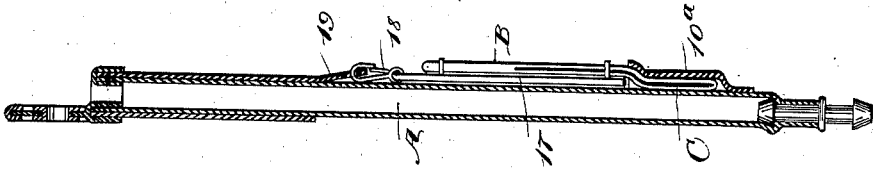


Fig. 3

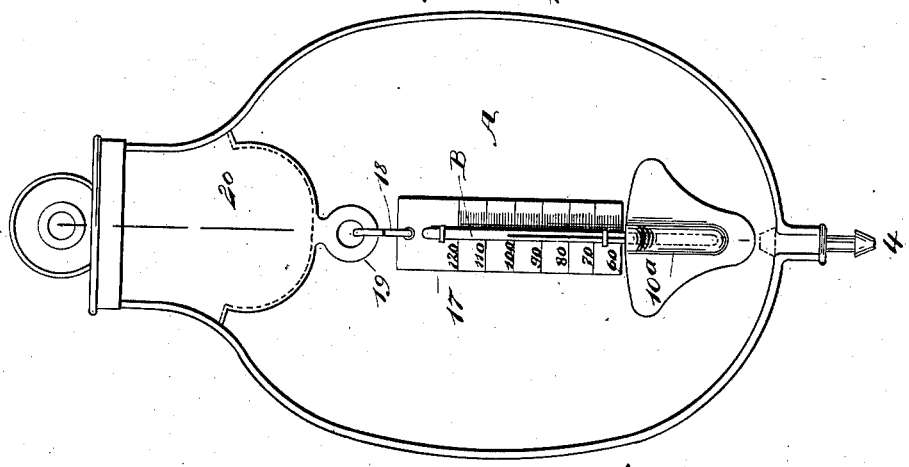


Fig. 2

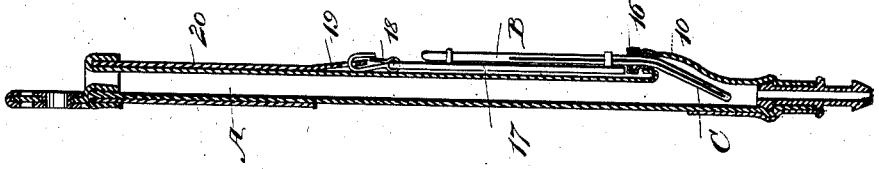


Fig. 1

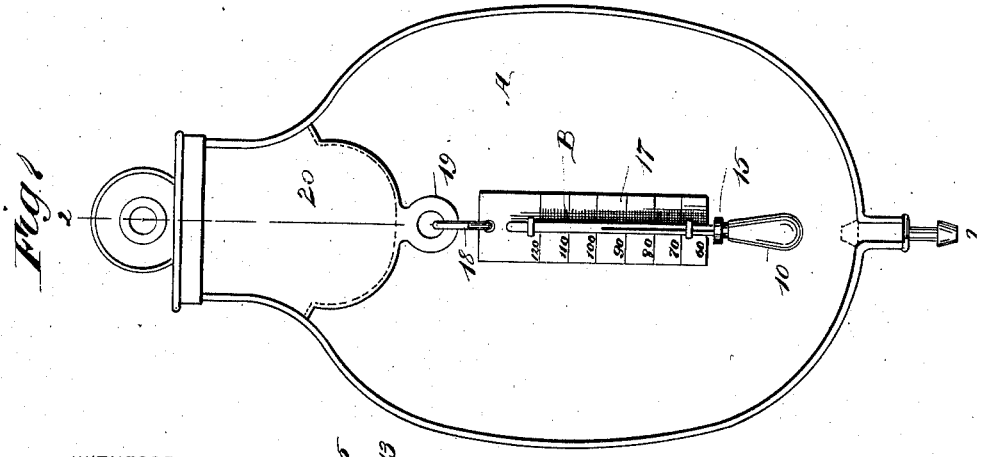
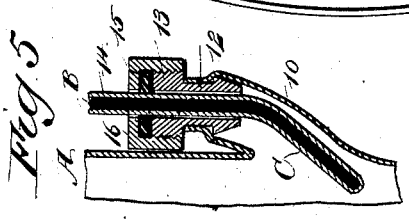


Fig. 5



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THERMOMETER ATTACHMENT FOR HOT-WATER BAGS, &c.

SPECIFICATION forming part of Letters Patent No. 522,866, dated July 10, 1894.

Application filed February 7, 1894. Serial No. 499,323. (No model.)

To all whom it may concern:

Be it known that we, HENRY WEINHAGEN, of Hoboken, in the county of Hudson and State of New Jersey, and FERDINAND KING, of New York city, in the county and State of New York, have invented a new and Improved Thermometer Attachment for Hot-Water Bags and Like Receptacles, of which the following is a full, clear, and exact description.

Our invention relates to a thermometer attachment for hot water bags and like receptacles, and it has for its object to provide a means whereby a thermometer may be attached to a hot water bag, a fountain syringe or equivalent receptacle, in such manner that a person may know at a glance the temperature of the water contained in such syringe or receptacle.

The attachment is capable of being made to rubber or other bags or vessels used in the irrigation of wounds, &c., before, during and after operations, it being highly important in many cases that the exact temperature of the liquid contained in the vessel should be adequately known before such liquid is introduced into the wound, or is employed for washing parts of the body.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of a fountain syringe, the receiving receptacle of which is illustrated as provided with the thermometer attachment. Fig. 2 is a vertical section taken through the fountain of the syringe, practically on the line 2—2 of Fig. 1. Fig. 3 is a view similar to Fig. 1, illustrating however a slight modification in the means employed for placing and attaching the thermometer. Fig. 4 is a section taken essentially on the line 4—4 of Fig. 3; and Fig. 5 is an enlarged sectional view of the fountain of the syringe at that portion where the bulb of the thermometer is introduced into the interior of the fountain.

In carrying out the invention the fountain A of the fountain syringe—illustrated,—is of the usual construction, and the thermometer tube B may be of the usual formation, but preferably the bulb C of the said thermometer tube is so shaped that it will enter the fountain, while the body of the tube will appear at the exterior of the fountain, or whereby the bulb of the thermometer tube may be under cover while the body is exposed.

In the preferred form of the device, or that shown in Figs. 1, 2 and 5, a tubular extension or pocket 10 is formed preferably upon one side face of the fountain of the syringe or other vessel near the lower edge thereof, the said pocket or tubular extension having direct communication with the interior of the fountain. In this event a tubular plug 12, is introduced into the open end of the pocket or tubular extension, the said plug being provided with a shoulder near its lower end in order that it may not be readily withdrawn from the pocket or extension, and with a peripherally threaded flange 13 at its upper or outer end. The body portion 14 of the thermometer tube B, is passed upward through the plug, the bulb C of the tube extending preferably into the interior of the fountain; and to that end the bulb is made at an angle to the body of the thermometer tube, as is clearly shown in Fig. 5. A packing 15 is then placed upon the top of the flange of the plug, said packing being provided with an opening through which the body of the thermometer tube may extend, and a gland 16 is screwed upon the flange of the plug 12, compressing the packing 15, and effecting a water-tight connection between the plug and the body of the thermometer tube. The body portion of the thermometer tube, or that which is exposed, is preferably attached to a plate 17 in any approved manner, upon which plate the degrees are recorded and in connection with which the indicating material of the thermometer tube is read. The plate 17, may be attached to the exterior of the fountain in any approved manner, as for example, by straps extending across its upper portion, attached to or integral with the outer face of the fountain; but usually and preferably, a clip 18 is attached to the upper portion of the

thermometer plate and connected with a ring 19, which may be an appendage to a reinforcing strip 20, located at the upper portion of the fountain.

In Figs. 3 and 4 we have illustrated a slight modification in the manner of locating and securing the bulb to the thermometer tube. In the said modified form a pocket 10^a, is formed upon the outer face of the fountain or other vessel, adapted to receive within it the bulb of the thermometer tube and hold the same in close contact with one side surface of the fountain, the bulb being meanwhile protected by the pocket from the influence of currents of air passing over or surrounding the fountain. Otherwise the attachment of the reading plate on the body of the thermometer tube to the outside of the fountain may be made in the manner heretofore described, or in an equivalent manner.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A water bag provided on one side with a tubular projection or pocket to receive the bulb of a thermometer, and with means for securing the upper end of the thermometer to the bag, substantially as described.

2. A water bag provided on one side with a tubular projection or pocket leading into the interior of the bag, a tubular plug fitting in the tubular projection or pocket and having a threaded flange at its upper end, and a gland screwing on the said flange, substantially as described.

3. The combination of a water bag provided on one side with a tubular projection or pocket leading into the interior of the bag, a tubular plug fitting in the extension, a gland on the plug, a thermometer having its bulb made at an angle to the body thereof, said bulb extending through the projection into the interior of the bag, and means for securing the upper end of the thermometer to the bag, substantially as described.

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