

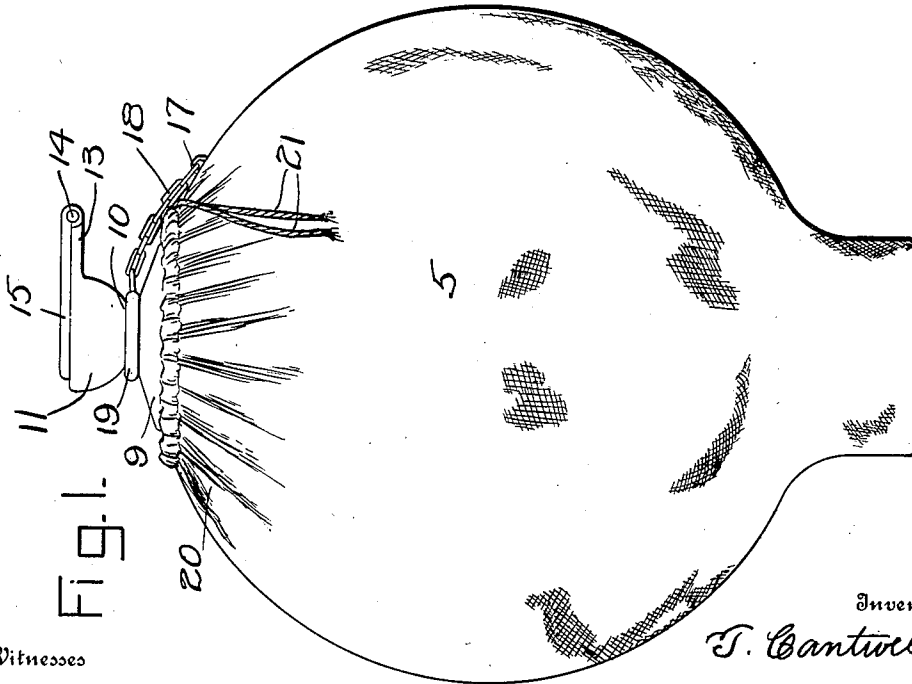
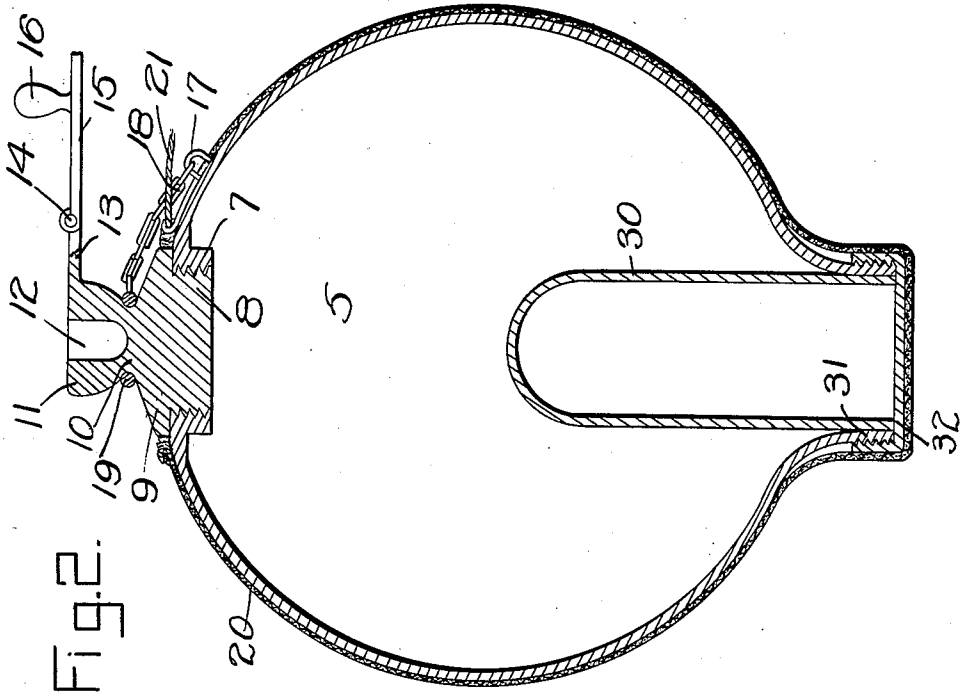
No. 879,516.

PATENTED FEB. 18, 1908.

T. CANTWELL.
HOT WATER BOTTLE.

APPLICATION FILED SEPT. 19, 1907.

2 SHEETS—SHEET 1.



Witnesses

John Miller
John Brown

Inventor

T. Cantwell

By

Charles Cantwell

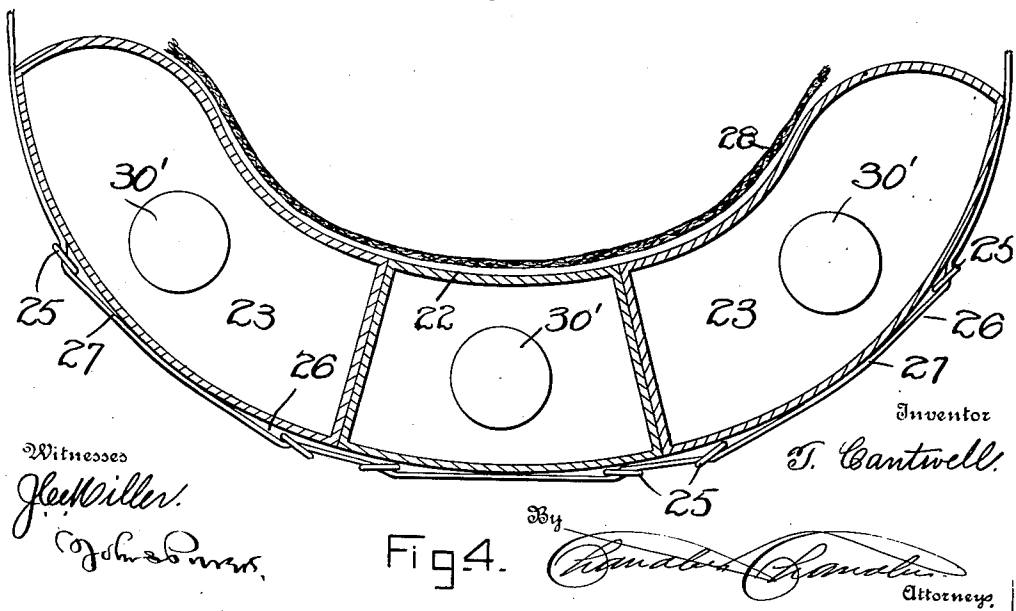
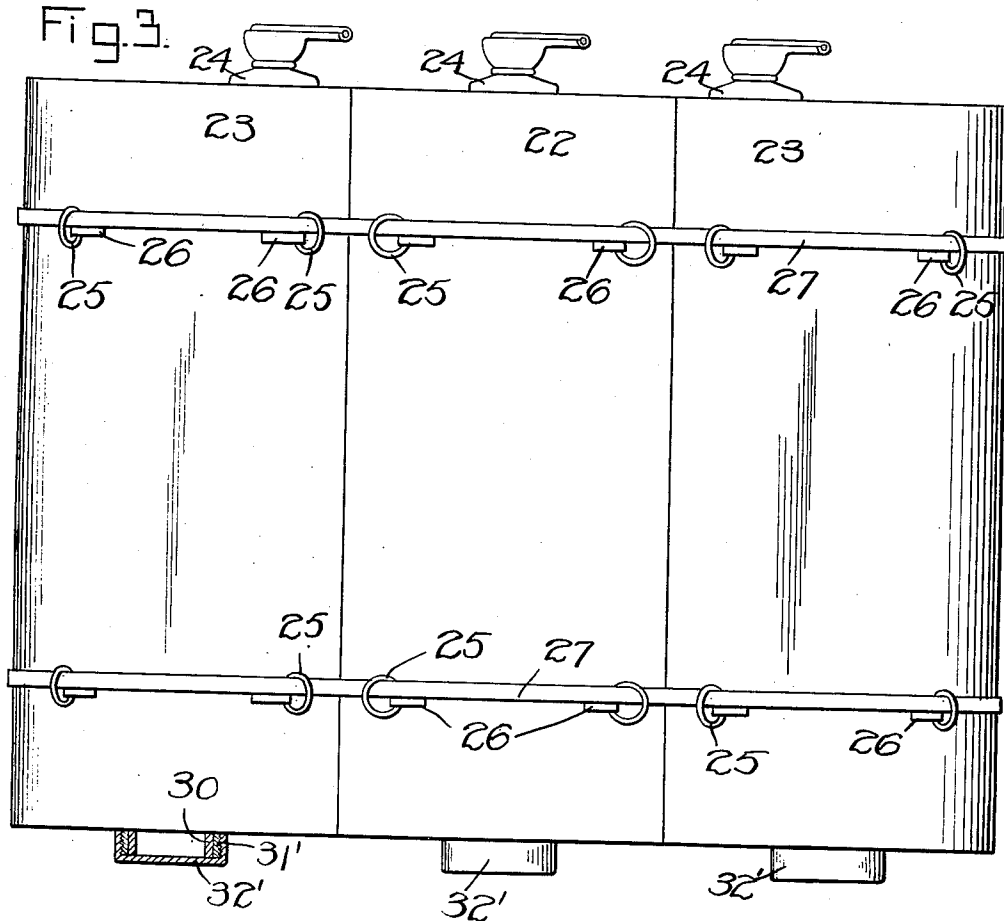
Attorneys.

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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

THOMAS CANTWELL, OF ST. LOUIS, MISSOURI.

HOT-WATER BOTTLE.

No. 879,516.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed September 19, 1907. Serial No. 393,724.

To all whom it may concern:

Be it known that I, THOMAS CANTWELL, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Hot-Water 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.

This invention relates to new and useful improvements in hot water heaters, and more particularly to a bottle constituted of a metallic receptacle covered by a lining of textile material, such as felt or cotton flannel and designed to replace the ordinary hot water rubber bags in common use, which have the objections that they store the heat for a very small period of time, at the very most two hours, and that they burst and leak readily.

In connection with a hot water heater of the above type, the invention aims as a primary object to provide a novel construction, combination and arrangement of parts, the details of which will appear in the course of the following description, in which reference is had to the accompanying drawings, forming a part of this specification, like characters of reference designating similar parts, throughout the several views, wherein:

Figure 1 is a side elevation illustrating the invention in its preferred form and showing the use of a screw cap stopper provided with a hinged lever for manually rotating said stopper. Fig. 2 is a longitudinal section thereof, illustrating the lever in its extended position. Fig. 3 is an elevation illustrating a modified embodiment of the invention. Fig. 4 is a transverse sectional view of such modified embodiment.

Referring specifically to the accompanying drawings, the numeral 5 indicates a receptacle preferably constructed of copper or other good heat conducting material, and which may be made in suitable shapes, the shape arbitrarily shown being that of an ordinary flask. The flask 5 at its upper end is constructed with an interiorly threaded boss 7 in which is engaged the screw stem 8 of a cap 9, the latter having a reduced neck 10 and an enlarged head 11 formed with a central socket 12. The head 11 is constructed with an extension 13 at one side thereof, to which is hinged as at 14, a lever 15 constructed with an angular handle 16, which, when said lever is swung upon said head, is designed to fit in

the socket 12. The flask 5 is provided at a suitable point with an eye 17 to which is secured a chain 18, the latter carrying at its other end a ring 19 formed to loosely surround the reduced neck 10.

The flask 5 is constructed with an interior auxiliary receptacle 30 and adjacent the mouth of said receptacle, has a projecting threaded boss 31 closed by a screw cap 32, the latter constituting a flat bottom for said flask. The receptacle 30 serves as a container for bottles, in which may be placed milk, tea, or other liquid food for invalids.

The receptacle 5 is inclosed in a bag 20 of textile heat storing material, having an expansible end controlled by a drawstring 21.

The bottle constructed as above described, is designed for use in hospitals, in traveling and for various other purposes in connection with which hot water bottles are ordinarily employed.

In the embodiment of the invention shown in Figs. 3 and 4, the same basic principles of construction are employed, including the auxiliary heating receptacle, the threaded boss and the screw cap designated by the respective numerals 30', 31' and 32' and corresponding in construction and use to the parts 30, 31 and 32 employed in the preferred form of the invention, but the heaters are used in series and are designed for the treatment of special cases, as in the application to the body of a patient suffering from pneumonia, bronchitis, and similar pulmonary diseases. In the modified embodiment of the invention three bottles are shown as constituting a series. Such series comprises a central heater 22 and heaters 23 located at each side thereof, the heaters 22 and 23 being of such cross sectional contour as to conform to the curvature of the chest or other part of the body to which they are applied. The heaters 22 and 23 are provided with screw caps 24 similar in construction to those above described and on their outer faces are provided with parallel lines of rings 25 secured by metallic straps 26. Through the rings 25, flexible straps 27 of leather are engaged for securing the series to the body in the position shown more particularly in Fig. 4. These heaters 22 and 23 may be covered entirely by textile heat storing material, but, as shown and as preferred, a heavy loose covering 28, of such material, is arranged upon the inner faces thereof. It is obvious that in this form of the invention, the heaters

may be shaped for application to the various parts of the body and that any number of such heaters necessary to protect the diseased area may be employed.

- 5 The invention is simple in its structural details, inexpensive to manufacture and practical and efficient in use.

From the foregoing description it will be seen that simple and efficient means are provided for accomplishing the objects of the invention, but while the elements herein shown and described are well adapted to serve the functions set forth, it is obvious that various minor changes may be made in the proportions, shape and arrangement of the several parts, without departing from the spirit and scope of the invention as defined in the appended claims.

What is claimed is:

- 20 1. A device of the type set forth, comprising a metallic receptacle formed with an open end and with a threaded boss adjacent said open end, and a closure for said receptacle, comprising a cap having a threaded stem for
25 engagement with said boss, a socketed head,

and a lever hinged upon said head and provided with an angularly disposed handle, said handle being engaged in said socketed head in one position of said lever.

2. A device of the type set forth, comprising a metallic receptacle formed with an open end and with a threaded boss adjacent said open end, and a closure for said receptacle, comprising a cap having a threaded stem for engagement with said boss, a socketed head, 30 and a lever hinged upon said head and provided with an angularly disposed handle, said handle being engaged in said socketed head in one position of said lever, several of said devices being arranged in a series on a 35 curved line and covered with heat-storing material, and means for maintaining the material on the devices.

In testimony whereof, I affix my signature, in presence of two witnesses.

THOMAS CANTWELL.

Witnesses:

WILLIAM HUBERT,
CECILIA GRABENSCHROER.