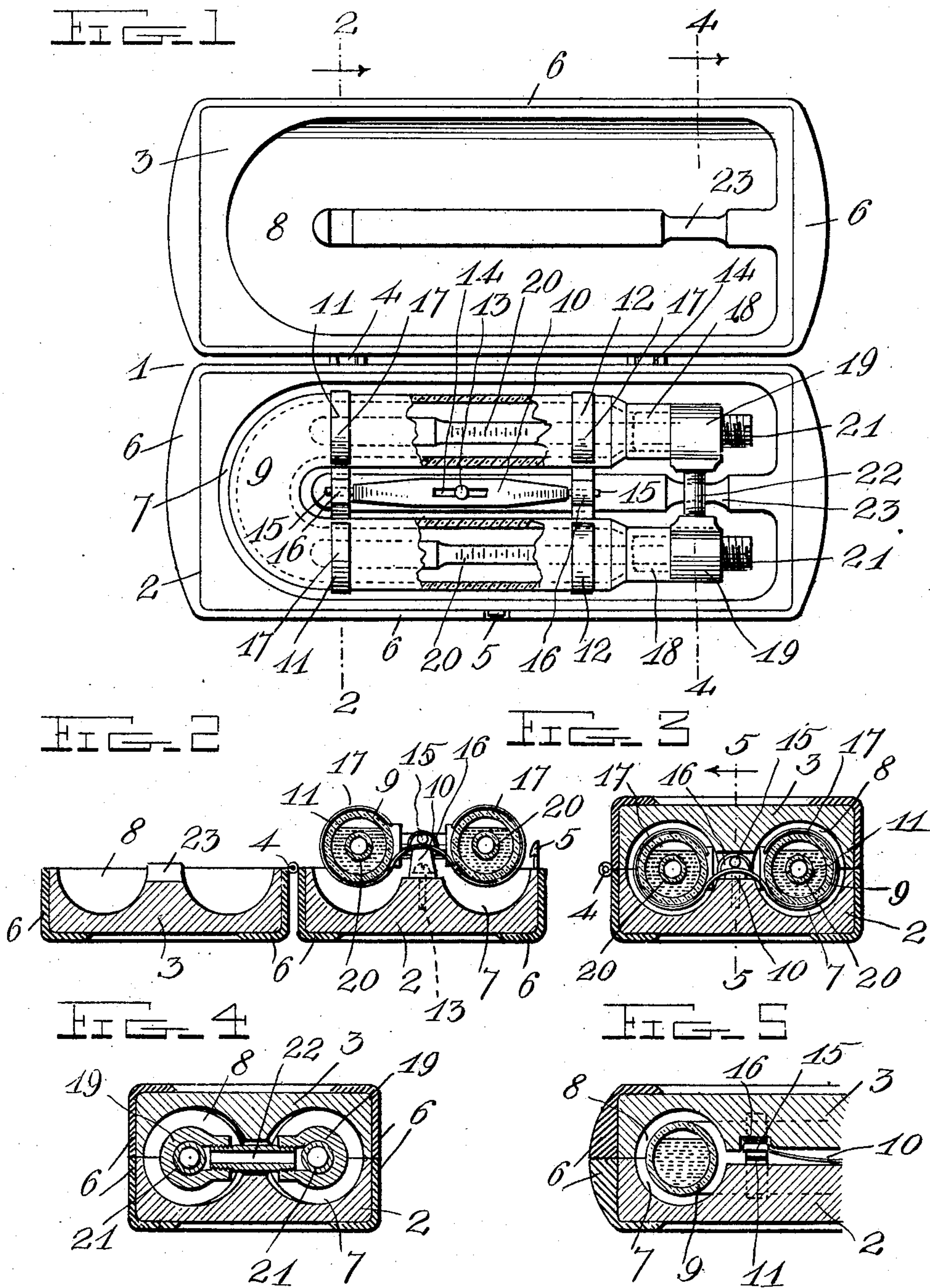


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G. M. BRUBAKER.
THERMOMETER STERILIZER AND HOLDER.

APPLICATION FILED FEB. 26, 1906.



Witnesses

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GRANVILLE M. BRUBAKER, OF MERCERSBURG, PENNSYLVANIA.

THERMOMETER STERILIZER AND HOLDER.

No. 862,385.

Specification of Letters Patent.

Patented Aug. 6, 1907.

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To all whom it may concern:

Be it known that I, GRANVILLE M. BRUBAKER, a citizen of the United States, residing at Mercersburg, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in Thermometer Sterilizers and Holders; and I do 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.

My invention is an improved sterilizer and holder for thermometers and the like, and it consists in the novel construction, combination and arrangement of parts hereinafter described and claimed.

The object of the invention is to provide a device of this character of simple, durable and comparatively inexpensive construction, in which one or more thermometers may be conveniently and safely carried in an antiseptic substance.

The above and other objects which will appear as the nature of my invention is better understood, are accomplished by means of the construction illustrated in the accompanying drawings, in which:—

Figure 1 is a plan view of my improved thermometer sterilizer and holder, showing the same in its open position; Fig. 2 is a vertical transverse sectional view, taken on the plane of the line 2—2 in Fig. 1; Fig. 3 is a similar sectional view, the two parts or half-sections of the casing or holder being in their closed position; Fig. 4 is a transverse sectional view, taken on the plane of the line 4—4 in Fig. 1, the casing or holder being closed as in Fig. 3; and Fig. 5 is a detail longitudinal section, taken on the plane of the line 5—5 in Fig. 3, also showing the casing or holder closed.

Referring to the drawings by numeral, 1 denotes my improved sterilizer and holder for thermometers or the like, which is adapted to be conveniently carried in one's pocket or in a doctor's medicine case. As shown, the device is adapted for containing two thermometers, and it comprises a casing or holder consisting of two half sections or members 2, 3 which are hingedly connected as shown at 4, and are adapted to be secured in their closed position, as shown in the drawings, by a fastener 5 of any desired form and construction. These sections 2, 3 of the casing may be constructed of wood or any other suitable material, and I preferably face their ends, side edges and corners with rubber or the like 6 which is adapted to serve as a cushion to reduce to a minimum the chance of breaking the thermometers from a fall or blow.

In the inner or opposing faces of the casing sections 2, 3 are formed similar-shaped cavities or recesses 7, 8 adapted to receive between them a container 9 for a sterilizing substance which may be in the form of an

antiseptic liquid or powder or of any other description. As shown the container 9 is in the form of a U-shaped tube of glass or the like, and the cavities 7, 8 are similar in shape, as clearly shown in Fig. 1 of the drawings.

The antiseptic thermometer container or receptacle 9 is elastically or resiliently supported from the lower or bottom casing section 2 by means of a longitudinally extending spring 10 which has clips 11, 12 at its ends to engage the tube or container. The spring 10 is adjustably mounted by means of a screw 13 passed through the slot 14, upon the central portion of the inner face of the bottom casing section 2 between the two branches or arms of the cavity 7, and its cylindrical ends or trunnions 15 are mounted in loops 16 upon the central portions of the clips 11, 12 which latter extend transversely. These clips 11, 12 are preferably formed by bending strips of resilient metal, as shown in Figs. 2 and 3, to form substantially circular spring loops or jaws 17 which receive the branches or arms of the U-shaped tube or container 9. The ends of this spring 10 spring outwardly or upwardly, so that when the casing is in its open position shown in Figs. 1 and 2 of the drawings, the tube or container 9 will be elevated and supported above and partially out of the cavity 7, as shown in Fig. 2 of the drawings, and when the cover or top casing section 3 is closed, as shown in Fig. 3 of the drawings, the tube or container 9 will be moved into the cavity 7, so as to be supported centrally between the walls of the coacting cavity 7, 8 in the two sections of the casing.

The portion of the inner face of the top section 3 between the two branches or arm of the cavity 8, engages the spring and the clips and moves them downwardly or inwardly as described, and as shown in Figs. 3 and 5 of the drawings. The arms or branches of the U-shaped tube or container 9 have secured in their reduced ends 18 plugs or stoppers 19 of metal or the like, through openings in which the thermometers 20 are passed, suitable screw caps 21 being provided to render the tube or container liquid and air tight.

I preferably provide between the two hollow plugs or stoppers 19 an air tube 22 which has its opposite ends screwed into the adjacent faces of said stoppers or plugs, as clearly shown in Figs. 1 and 4 of the drawings. This air tube 22 provides means of escape for any air which may be in the chamber or leg in which the liquid is lowest and thus allows the legs to fill evenly; it also serves to strengthen the tube. Suitable notches or recesses 23 are formed in the central portions of the opposing faces of the casing sections 2, 3 to receive the tube 22. A liquid or powdered antiseptic or any other suitable sterilizing substance may be placed within the tube or container 9 for the purpose of effectively sterilizing the thermometers 20; and the escape of

such substance will be effectively prevented by the closures 19 and 21 at the ends of the tube or container or one closure only may be used as the tube being made U-shaped requires only one end thereof to be closed, 5 as with one end closed, the atmospheric pressure is such that no liquid can escape regardless of the position in which the vial is held.

From the foregoing description, taken in connection with the accompanying drawings, the construction, 10 use and advantages of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to with- 15 out departing from the principle or sacrificing any of the advantages of this invention, as defined by the appended claims.

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

1. An antiseptic container for thermometers consisting 20 of a U-shaped tubular vessel, open at both ends and having a closure for one of said ends.

2. The herein described U-shaped container having its arms open at one end, hollow plugs in said open ends, an air tube connecting said hollow plugs, and closures for the 25 open ends of said plugs.

3. The herein described U-shaped container having its arms open at one end, hollow plugs in said open ends, an air tube connecting said hollow plugs, and a closure for the open end of one of said plugs. 30

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GRANVILLE M. BRUBAKER.

Witnesses:

R. STYLES OYLER,
J. C. RANKIN.