Dec. 7, 1926. 1,609,389

C. S. TOMLINSON

CLINICAL THERMOMETER CASE

Filed Feb. 1, 1926

Fig. 1.

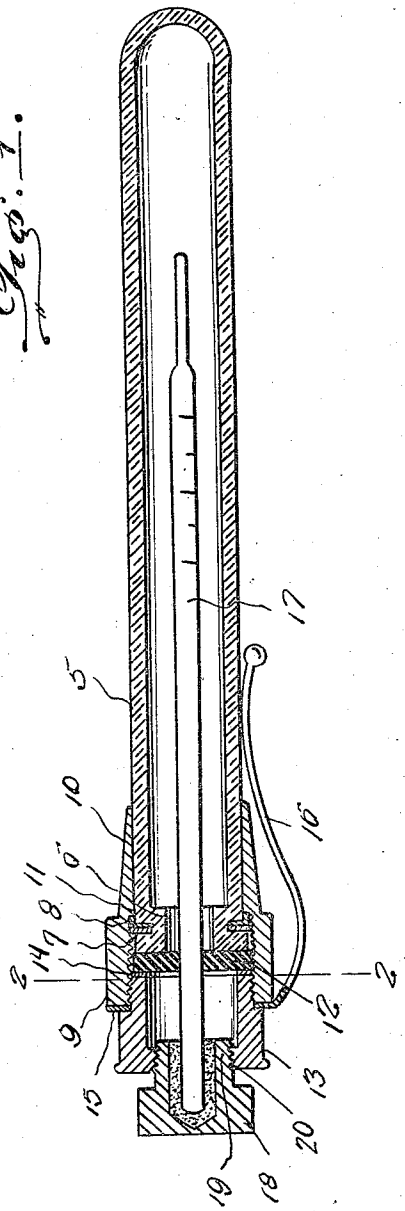


Fig. 3.

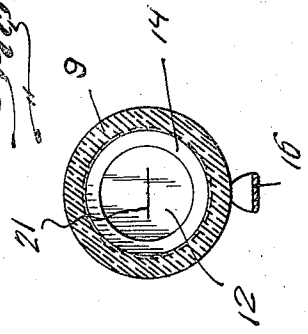
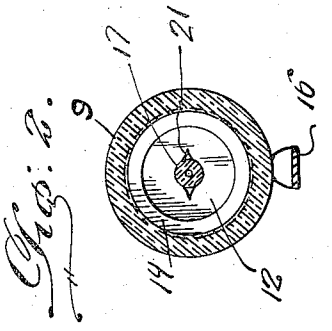


Fig. 2.



Inventor

C. S. Tomlinson,

By Clarence A. O'Brien

Attorney

Patented Dec. 7, 1926. 1,609,389

UNITED STATES PATENT OFFICE.

CHARLES S. TOMLINSON, OF MILTON, PENNSYLVANIA.

CLINICAL-THERMOMETER CASE.

Application filed February 1, 1926. Serial No. 85,269.

This invention relates generally to clinical thermometers and has more particular reference to a case therefor, the primary object of the invention residing in the provision of such a case that will permit of the carrying of the thermometer within the vest or coat pocket of the physician in a manner similar to a foutain pen or pencil carrying the usual pocket securing clip.

An additional object resides in the provision of such a case, the parts of which may be readily disassembled for repair or renewal purposes in order that when breakage of different parts occur it will not be necessary to procure an entirely new case.

A further and important object is to provide a case of this character that is adapted to receive a sterilizing fluid in order that the same may be repeatedly used with different patients and without requiring a separate sterilizing operation at the time of each use.

A further and important object is to provide such a case for receiving a sterilizing fluid, that is so constructed as to absolutely prevent the leakage of the fluid at all times regardless of whether or not the thermometer is within the case or withdrawn therefrom.

Yet another object is to provide means as a part of the case that will effectively remove the sterilizing fluid from the thermometer during the withdrawal of the same from the case.

An additional and important object is to provide a case of this character wherein the thermometer may be disposed within or removed from the case without requiring the removal of the case from the pocket.

Other and important objects will become apparent as the nature of the invention is better understood, the same comprising the novel form, combination, and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing wherein like reference characters indicate corresponding parts throughout both of the views:

Figure 1 is a detail longitudinal section of my clinical thermometer case.

Figure 2 is a detail transverse section taken substantially upon the line 2—2 of Figure 1, and

Figure 3 is a similar view of the case after the thermometer has been removed therefrom.

Now having particular reference to the drawing, my novel invention constitutes the provision of a relatively elongated tubular container 5 preferably of glass that is adapted to be totally or partially filled with a sterilizing liquid.

The open end of said tubular receptacle is provided with a wide internal flange 6 for providing a wide bearing point at this end of the receptacle for preventing breakage of the same through means hereinafter more fully described.

Adjacent the open end of the receptacle, the same is provided with a circumferential groove 7 within which are disposed a pair of packing rings 8, the innermost one of which is flanged inwardly, as clearly shown in Figure 1. Adapted to be disposed over the open end of the receptacle is an internally tapered and threaded gland 9, formed at its lower end with a relatively elongated ferrule 10 that closely contacts the exterior surface of the receptacle for preventing transverse movement of the same therein. At the connecting point betwen the gland 9 and ferrule 10 there is formed an internal shoulder 11 that is engaged by the flange of the innermost packing ring 8 for preventing the downward sliding movement of the receptacle within said gland.

Disposed upon the open end of the receptacle is a rubber disc 12 that is held in this position through the medium of a hollow securing nut 13 of circular cross section, the lower edge of which is reduced in cross sectional area and is of tapered formation and externally threaded for threaded engagement within the projecting end of the gland 9. Between the nut and disc 13 and 12 respectively, is a washer 14 for preventing tearing of the disc during the turning movement of the nut and gland.

Adapted to be disposed between the shoulder formed upon the exterior surface of the nut through reason of the extension, and the gland 9 is a metallic ring 15 that has formed upon its edge a pocket securing clip 16 of conventional design in order that the case may be readily secured within the vest or coat pocket of the physician in an obvious manner.

In carrying out my invention the clinical thermometer 17 is provided at its upper end with a metallic head 18 formed with an externally threaded nipple 19 that is adapted to be threaded within a threaded opening 20 in the hollow nut 13 for obviously securing the thermometer within the case after the same has been disposed therein.

The rubber disc 12 is formed with a cross slit 21 through which the thermometer 17 passes, it being obvious that when the thermometer is removed, the edges of the slit will contact for providing a fluid tight closure for the open end of the receptacle, thus preventing the leakage of the sterilizing material therein.

It will also be understood that as the thermometer is being withdrawn from the case, the edges of said slit will wipe the same for removing thereform the sterilizing fluid that would otherwise adhere thereto.

It will thus be seen that I have provided a highly novel, simple, and efficient form of clinical thermometer case that is readily adapted for all the purposes hereinbefore designated, and even though I have herein shown and described the same as comprising certain detail structural elements, it is nevertheless to be understood that modifications may be had in so far as said structural elements is concerned without departing from the spirit and scope of the appended claim.

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

A clinical thermometer for pocket use comprising an elongated receptacle of general cylindrical form closed at one end and provided at its opposite end with a thickened portion providing a restricted opening for passage of a thermometer, a gland carried by the last named end of the receptacle and provided with an inwardly extending sleeve for surrounding the adjacent portion of the receptacle, said gland being internally screw threaded and having a portion extending beyond the open end of the receptacle, a collar-nut having a reduced screw threaded portion capped into said gland, a compressible disk interposed between said nut and the open end of said receptacle, said disk having a central slit in registry with said opening, said nut having an external shoulder, a ring surrounding said nut and clamped between said shoulder and said gland, and a resilient pocket clasp carried by said ring and adapted to hold the device in the user's pocket, together with a thermometer including a head detachably connected with said nut, the thermometer extending through the slit in said disk, the opening in said receptacle and into the interior of the receptacle.

In testimony whereof I affix my signature.

CHARLES S. TOMLINSON.