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STERILIZER ATTACHMENT FOR HYPODERMIC SYRINGES.
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1,336,061.

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Fig. 2.

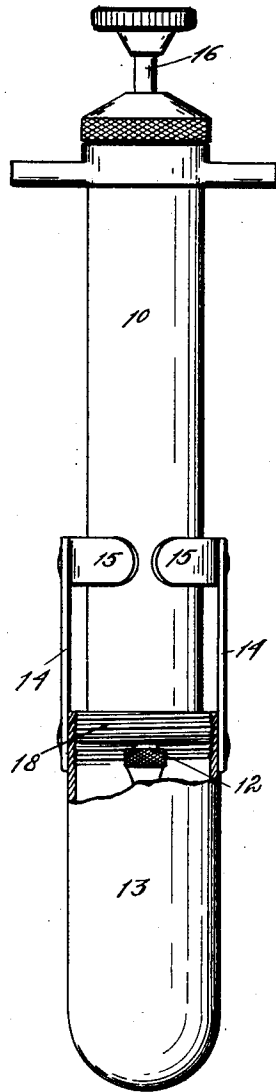
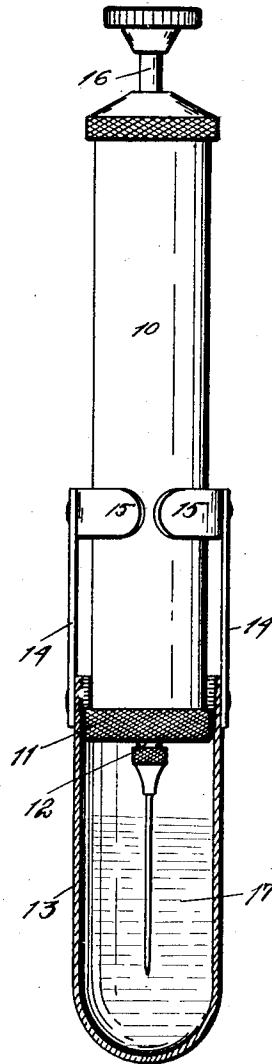


Fig. 1.



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STERILIZER ATTACHMENT FOR HYPODERMIC SYRINGES.

1,336,061.

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To all whom it may concern:

Be it known that I, GUS B. YOUNG, a citizen of the United States, and resident of Des Moines, in the county of Polk and State of Iowa, have invented a certain new and useful Sterilizer Attachment for Hypodermic Syringes, of which the following is a specification.

The object of my invention is to provide an attachment for hypodermic syringes of simple, durable and inexpensive construction.

A further object is to provide such an attachment comprising a receptacle, and means for adjustably mounting the receptacle on the syringe barrel in line therewith, so that the needle will be received within the receptacle.

A further object is to provide means for locking said receptacle on the syringe barrel if desired.

A further object is to provide such a device which can be quickly and easily removed from the syringe to permit the ordinary use of said syringe.

My invention consists in the construction, arrangement and combination of the various parts of the device whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which:

Figure 1 shows a side elevation of a hypodermic syringe with my device attached thereto, the receptacle being shown in section.

Fig. 2 shows a side elevation of a syringe with a modified form of my device partly in section installed thereon.

In the accompanying drawings, I have used the reference numeral 10 to indicate generally the barrel of an ordinary hypodermic syringe, having at one end the removable cover 11. Screwed into the cover 11 is a shank of a needle 12.

My improved attachment comprises a comparatively deep receptacle 13 having one open end. Secured to the receptacle on opposite sides of the open end thereof, are parallel spring metal arms 14, extending along opposite sides of the barrel 10 and having at their free ends curved gripping members 15. The receptacle is of sufficient diameter to receive the lower end of the syringe.

In the practical use of the device just described, when it is desired to prepare a solution for use with the syringe, the members 15 are slipped on to the barrel of the syringe. Water is poured into the receptacle 13 and is heated. The receptacle is quite small, so that an ordinary match may be used for heating the water in said receptacle. A tablet may be dropped into the receptacle and dissolved after the water has been boiled and a medicinal solution may thus be formed.

The plunger stem 16 is drawn outwardly, thereby drawing the solution 17 into the syringe. The attachment is then slipped off. It will be understood that the arms 14 are of resilient metal, so that the attachment may be readily removed from the syringe and so that they may be used on syringes of different diameters. The syringe is then ready for use, the needle has been thoroughly sterilized, and the water used in the solution has been boiled. The attachment is longitudinally adjustable with relation to the barrel of the syringe, so that the receptacle 13 may be readily and easily used with needles of different lengths.

In Fig. 2, I have shown a slightly modified form of my device in which the removable cover 11 is removed and an externally screw-threaded cover 18 of greater diameter than the member 11 is substituted for it. In the modified form the upper portion of the receptacle 13 is internally screw-threaded to coact with said cover member 18.

The receptacle, which is indicated by the numeral 13, may be screwed to different positions on the barrel of the syringe for securing the receptacle in different positions.

The form shown in Fig. 2 is especially desirable for use under conditions where it is desirable to lock the receptacle in position for protecting the needle. All of the forms are adjustable, as shown, for use with different needles.

The advantages of an attachment such as that herein shown are largely obvious from the foregoing description.

It is very easy to boil a very small amount of water for making a sterilized solution and for sterilizing the needle.

The solution is prepared in the receptacle and is drawn into the syringe. It is easy to keep the needle from any contaminating contact until after it has been used.

The attachment is comparatively simple and inexpensive, and as shown, easy of operation, so that any one can use it.

It will readily be seen that changes may be made in the construction and arrangement of the parts of my improved device without departing from its essential features and purposes, and it is my intention to cover by this application any such modifications of structure which may be reasonably included within the scope of my claims.

I claim as my invention:

1. In a hypodermic syringe, a syringe barrel having a screw-threaded member, a receptacle open at one end having a screw-threaded portion at its open end adapted to coact with the screw-threaded portion of the barrel, arms projecting from the free end of said receptacle and designed to stand alongside the barrel, made of resilient material, each of said arms having at its free end a gripping member, adapted to yieldingly engage said barrel, whereby the receptacle may be secured on to the barrel and when re-

lieved from its screw-threaded engagement, may be slid longitudinally with relation thereto, so that said arms will hold said receptacle in different positions with relation to the barrel.

2. In a device of the class described, the combination of a barrel with an attachment comprising a receptacle open at one end adjacent to said barrel, arms on said receptacle adapted to extend alongside said barrel, and to be slidably extended thereon, and means for detachably securing said attachment to said barrel.

3. In a device of the class described, the combination of a barrel with an attachment comprising a receptacle open at one end adjacent to said barrel, arms on said receptacle adapted to extend alongside said barrel and to be slidably extended thereon, and means for detachably securing said attachment to said barrel for limiting such sliding movement.

Des Moines, Iowa, March 29, 1919.

GUS B. YOUNG.