April 18, 1944. N. BUTZKE 2,346,725

STERILIZING CONTAINER FOR SYRINGE AND HYPODERMIC NEEDLES

Filed Oct. 7, 1942

Fig. 1.

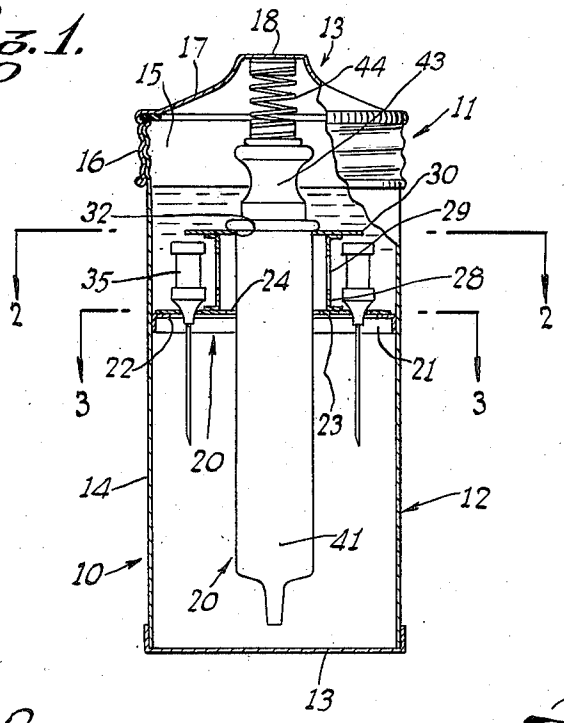


Fig. 2.

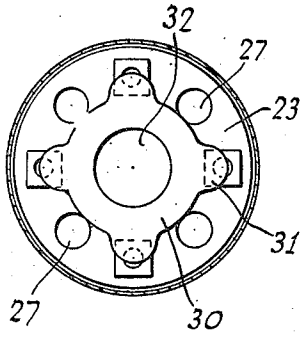
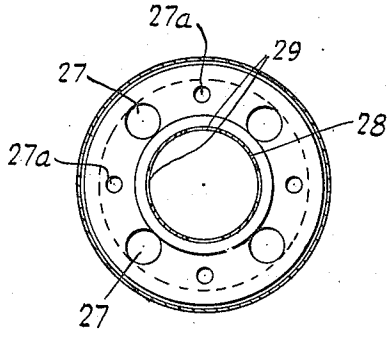


Fig. 3.



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Patented Apr. 18, 1944

2,346,725

UNITED STATES PATENT OFFICE

2,346,725

STERILIZING CONTAINER FOR SYRINGE AND HYPODERMIC NEEDLES

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Application October 7, 1942, Serial No. 461,194

1 Claim. (Cl. 206—43)

An object of this invention is to provide an improved device of the character described comprising a container for antiseptic liquid and having means to hold a plurality of hypodermic needles and a syringe.

Another object of this invention is to provide a device of the character described having spring means to retain the plunger of the syringe within the barrel and the syringe against movement in the container.

A further object of this invention is to provide a device of the character described having means to hold the needles and syringe in place even when the container is turned upside down.

Yet a further object of this invention is to provide a strong and durable device of the character described which shall be relatively inexpensive to manufacture, easy to assemble and yet practical and efficient to a high degree in use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the following claim.

In the accompanying drawing, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is an elevational view of the device embodying the invention with parts broken away and in cross-section.

Fig. 2 is a cross-sectional view taken on line 2—2 of Fig. 1; and

Fig. 3 is a cross-sectional view taken on line 3—3 of Fig. 1.

Referring now in detail to the drawing, 10 designates a device embodying the invention. The same comprises a container 11 having a receptacle portion 12 and a cover 13 to close the top end thereof. The receptacle 12 may have a bottom wall 13 and a cylinder upstanding wall 14 attached thereto. The cylindrical wall 14 is made of sheet metal and is threaded at the upper end thereof, as designated by numeral 15. The cover 13 has an annularly threaded portion 16 engaging the threaded portion 15 of receptacle 12. Said cover 13 also has a top, upwardly tapering portion 17 terminating in a flat central top portion 18.

Fixed within the receptacle 12, somewhat above the mid-portion thereof, is an annular ring 20. Ring 20 comprises an annular downwardly extending flange 22. Mounted on flange 22 and fixed thereto in any suitable manner, is a flat annular plate 23 having a central opening 24. The plate 23 is also formed with a plurality of equi-angularly spaced openings 27, for the purpose hereinafter appearing. Said plate is also formed with smaller equi-angularly spaced openings 27*a* located between openings 27. Mounted on plate 23 is a cylindrical tube 28 surrounding the opening 24 and co-axial therewith. Tube 28 is fixed to the plate 23 in any suitable manner. It is formed with a plurality of spaced openings 29. Mounted on the upper end of tube 28 is a flat horizontal annular plate 30 concentric with said tube. Plate 30 is fixed to the upper end of tube 28 in any suitable manner. Plate 30 is formed with outwardly extending tongues 31 overlapping the openings 27*a*. Said plate 30 is formed with a central opening 32 having a diameter somewhat less than the diameter of openings 24 in plate 23.

Hypodermic needles 35 may be mounted on plate 23 by passing the needle ends downwardly through the openings 27*a*, as illustrated in the drawing. The needles are thus located below the tongues 31. To get the needles out it is merely necessary to slowly tilt them and lift sideways to clear the tongues 31. However, if the container is turned upside down the tongue 31 will hold the needles from falling out of the openings 27*a*.

The syringe 40 may be mounted on plate 30. The barrel 41 is passed through the opening 32 and the upper rim of the barrel engages plate 30. The plunger 43 is held within the barrel by a spring 44 interposed between the plunger and the underside of the top wall portion 18 of cover 13. The upper end of spring 44 may be fixed to the underside of cover portion 18 in any suitable manner.

It will now be understood that spring 44 keeps the plunger within the barrel and also keeps the syringe on its supporting plate 30.

The antiseptic liquid circulates freely through openings 27 and 29 of the holder.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying

drawing is to be interpreted as illustrative and not in a limiting sense.

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

A device of the character described comprising a cylindrical receptacle having a screw threaded upper end, a cover screwed to said upper end of said receptacle, a member fixed within said receptacle having openings fixed to receive hypodermic needles and formed with a central opening, a tubular member on said first member, a plate on said tubular member having a central opening smaller than the central opening of the first member and co-axial therewith whereby a syringe may be mounted on said plate and supported thereby, said plate also having spaced outwardly extending tongues overhanging some of said openings in said member, said syringe being adapted to pass through the central opening of the first member, and spring means on the cover to retain said syringe on its supporting plate.

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