

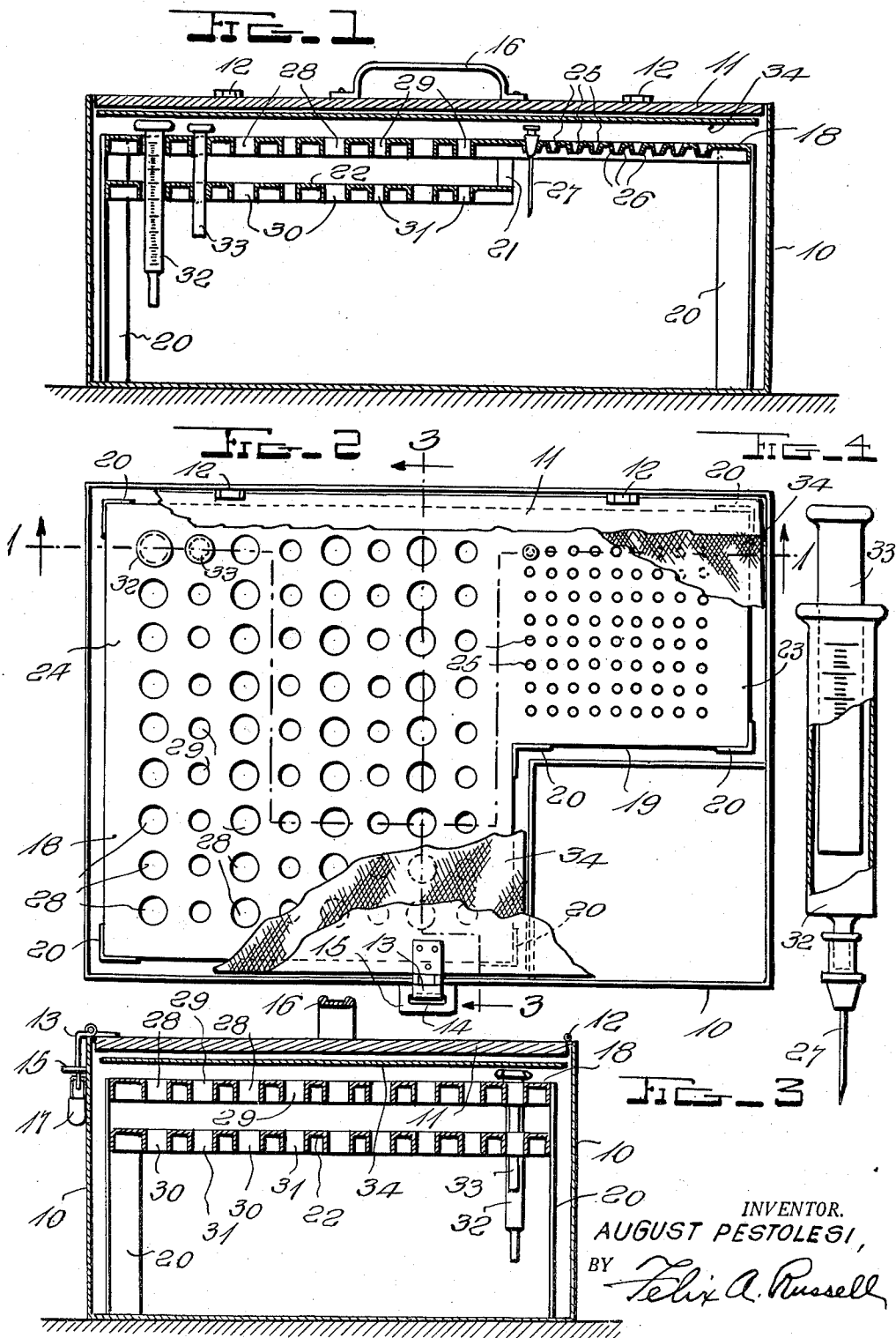
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CARRIER AND CONTAINER FOR HYPODERMIC SYRINGES

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CARRIER AND CONTAINER FOR HYPO-
DERMIC SYRINGES

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5 Claims. (Cl. 206—17.5)

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The present invention relates to a carrier and container for hypodermic syringes and it consists in the combinations, constructions and arrangements of parts herein described and claimed.

Generally there is provided a carrier and container for hypodermic syringes which may be placed as a unitary device in a sterilizer and which is adapted to contain within itself a plurality of barrels, plungers and needles. Openings are provided for the vertical reception of the barrels, plungers and needles and are arranged in such manner as to facilitate and permit the removal of a complete syringe in uncontaminated condition. The device is removable from a sterilizer as a unit and may be utilized as a carrier so that a plurality of syringe parts may be transported from place to place in uncontaminated condition after removal from the sterilizer.

It is accordingly an object of the invention to provide a device of the character set forth which is simple in construction, inexpensive to manufacture and yet effective and efficient in use.

Another object of the invention is the provision of novel means for mounting and transporting the various parts of hypodermic syringes.

Another object of the invention is the provision, in a device of the character set forth, of a novel arrangement of syringe barrel receiving openings, syringe plunger receiver openings and syringe needle receiving openings.

A further object of the invention is the provision, in a device of the character set forth, of novel means whereby a complete syringe may be assembled without contamination by the user's hands.

A still further object of the invention is the provision, in a device of the character set forth, of a novel arrangement of parts whereby the vertical position of plungers and barrels placed within the device is assured.

Other and further objects of the invention will become apparent from a reading of the following specification taken in conjunction with the drawing, in which:

Figure 1 is a vertical sectional view taken along line 1—1 of Figure 2,

Figure 2 is a plan view, partly broken away, of the device forming the present invention,

Figure 3 is a sectional view taken along line 3—3 of Figure 2, and

Figure 4 is an enlarged vertical elevational view, partly broken away, of a syringe such as is referred to in the present application.

Referring more particularly to the drawing,

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there is shown therein a rectangular container 10 having a cover 11 hinged thereto, as indicated at 12, at one side thereof and having its other side provided with a hinged latch member 13 which is adapted to extend through an opening 14 in an arm 15 which extends from one side of the container 10. The cover 11 is centrally provided with a carrying handle 16. The latch 13 may be provided with a lock 17, if desired.

Within the container 10 there is removably positioned a table like structure having a top 18 having one corner cut away, as indicated at 19, and provided at each of its corners with a vertically extending leg member 20.

Suspended from the top 18 by means of an arm 21 and welded to the legs 20 at one end of the table like structure is an aligning plate 22. It will be seen that the cut away portion 19 in the cover 18 essentially divides the top 18 into a smaller squared portion 23 and a larger squared portion 24 and that the aligning plate 22 lies only beneath the larger portion 24 of the cover 18.

The smaller squared portion 23 of the cover 18 is provided with a plurality of rows of needle holding apertures 25 having downwardly flared edges 26 in which may be placed hypodermic needles 27. The larger portion 24 of the cover is provided with rows of barrel-receiving openings 28 between each row of which is a row of plunger receiving openings 29. The aligning plate 22 is likewise provided with rows of barrel receiving openings 30 which immediately underlie the openings 28 and is also provided with plunger receiving openings 31 which underlie immediately the openings 29.

The openings 28 and 30 are adapted to receive vertically therethrough barrels 32 of hypodermic syringes and the openings 29 and 31 are adapted to receive vertically therethrough plungers 33 of hypodermic syringes.

In operation, it will be apparent that the device may first be loaded by placing hypodermic needle barrels 32 in the openings 28 and 30 and plungers 33 in the rows of openings 29 and their aligned openings 31. Hypodermic needles 27 will be placed in the openings 25 whereupon the space provided by the cut away portion 19 may be loaded with small cotton balls and a glass jar and the entire device placed within a sterilizer with the cover in opened condition after which the entire device is sterilized with dry steam for the proper period (usually fifteen minutes) whereupon it may be removed from the sterilizer and moved from place to place by a nurse or doctor by means of the handle 16.

When it is desired to use a syringe, a cloth cover 34, which has likewise been placed over the barrels, plungers and needles prior to placing the device in the sterilizer, may be lifted in such manner as to uncover only one of the barrels 32 and one of the plungers 33 whereupon the operator may grasp the upper end of the plunger 33 thus uncovered and place the same within the barrel 32 whereupon, still utilizing the upper end of the plunger 33, the barrel may be lifted away from the openings 28 and 30, it being understood that the plunger 33 will frictionally hold the barrel 32. The thus assembled barrel and plunger may then be moved to a point immediately over one of the needles 27 which likewise may be uncovered by lifting only a portion of the cloth 34 and the needle may then be assembled upon the lower end of the barrel 32 by frictional contact therewith. Thus it will be seen that the needle and the barrel will remain absolutely sterile while being made ready for use. Also it will be seen that the needles 27 when being positioned originally in the holes 25 will not come into contact with any foreign matter or device whatever. Again and most importantly it is pointed out that by placing the barrel receiving openings in rows adjacent rows of plunger receiving openings, that the operation of the device is greatly facilitated. After use the syringe may be disassembled and then by removing the needle 27 and placing the same in the glass jar provided therefor and the plunger and barrel may be left in assembled condition and placed within one of the openings 28, the leaving of the plunger 33 within the barrel indicating that that particular pair of elements has been used.

While but one form of the invention has been shown and described herein, it will be readily apparent to those skilled in the art that many minor modifications may be made without departing from the spirit of the invention or the scope of the appended claims.

What is claimed is:

1. A device of the character described comprising a container, a cover hinged to said container, a latch for the cover, a handle affixed to the cover, and a table like structure removably mounted in the container and comprising a top having rows of syringe barrel-receiving openings, rows of syringe plunger-receiving openings, and a plurality of needle-receiving openings formed therein, legs for supporting the top, and an aligning plate positioned in spaced parallel relation to the top and underlying that portion thereof having the barrel and plunger-receiving openings therein and provided with like openings in vertical registry with those in the top.

2. A device of the character described comprising a container, a cover hinged to said container, a latch for the cover, a handle affixed to the cover, and a table-like structure removably mounted in the container comprising a top having rows of syringe barrel-receiving openings, rows of syringe plunger-receiving openings, and a plurality of needle-receiving openings formed therein, legs for supporting the top, and an aligning plate positioned in spaced parallel relation to the top and underlying that portion thereof having the barrel

and plunger-receiving openings therein and provided with like openings in vertical registry with those in the top, said top having one corner cut away to provide a space within the container for the reception of devices allied to the use of syringes.

3. A device of the character described comprising a container, a cover hinged to said container, a latch for the cover, a handle affixed to the cover, and a table-like structure removably mounted in the container and comprising a top having rows of syringe barrel-receiving openings, rows of syringe plunger-receiving openings, and a plurality of needle-receiving openings formed therein, legs for supporting the top, and an aligning plate positioned in spaced parallel relation to the top and underlying that portion thereof having the barrel and plunger-receiving openings therein and provided with like openings in vertical registry with those in the top, and a cloth cover for covering barrels, plungers and needles positioned in their respective openings.

4. A device of the character described comprising a container, a cover hinged to said container, a latch for the cover, a handle affixed to the cover, a table-like structure removably mounted in the container and comprising a top having rows of syringe barrel-receiving openings, rows of syringe plunger-receiving openings, and a plurality of needle-receiving openings formed therein, legs for supporting the top, and an aligning plate positioned in spaced parallel relation to the top and underlying that portion thereof having the barrel and plunger-receiving openings therein and provided with like openings in vertical registry with those in the top, and a cloth cover for covering barrels, plungers and needles positioned in their respective openings, said top having one corner cut away to provide a space within the container for the reception of devices allied to the use of syringes.

5. A device of the character described comprising a container, a cover hinged to said container, a latch for the cover, a handle affixed to the cover, and a table-like structure removably mounted in the container and comprising a top having rows of syringe barrel-receiving openings, rows of syringe plunger-receiving openings, and a plurality of needle-receiving openings formed therein, legs for supporting the top, and an aligning plate positioned in spaced parallel relation to the top and underlying that portion thereof having the barrel and plunger-receiving openings therein and provided with like openings in vertical registry with those in the top, said barrel-receiving openings and said plunger-receiving openings being arranged in alternate rows.

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