

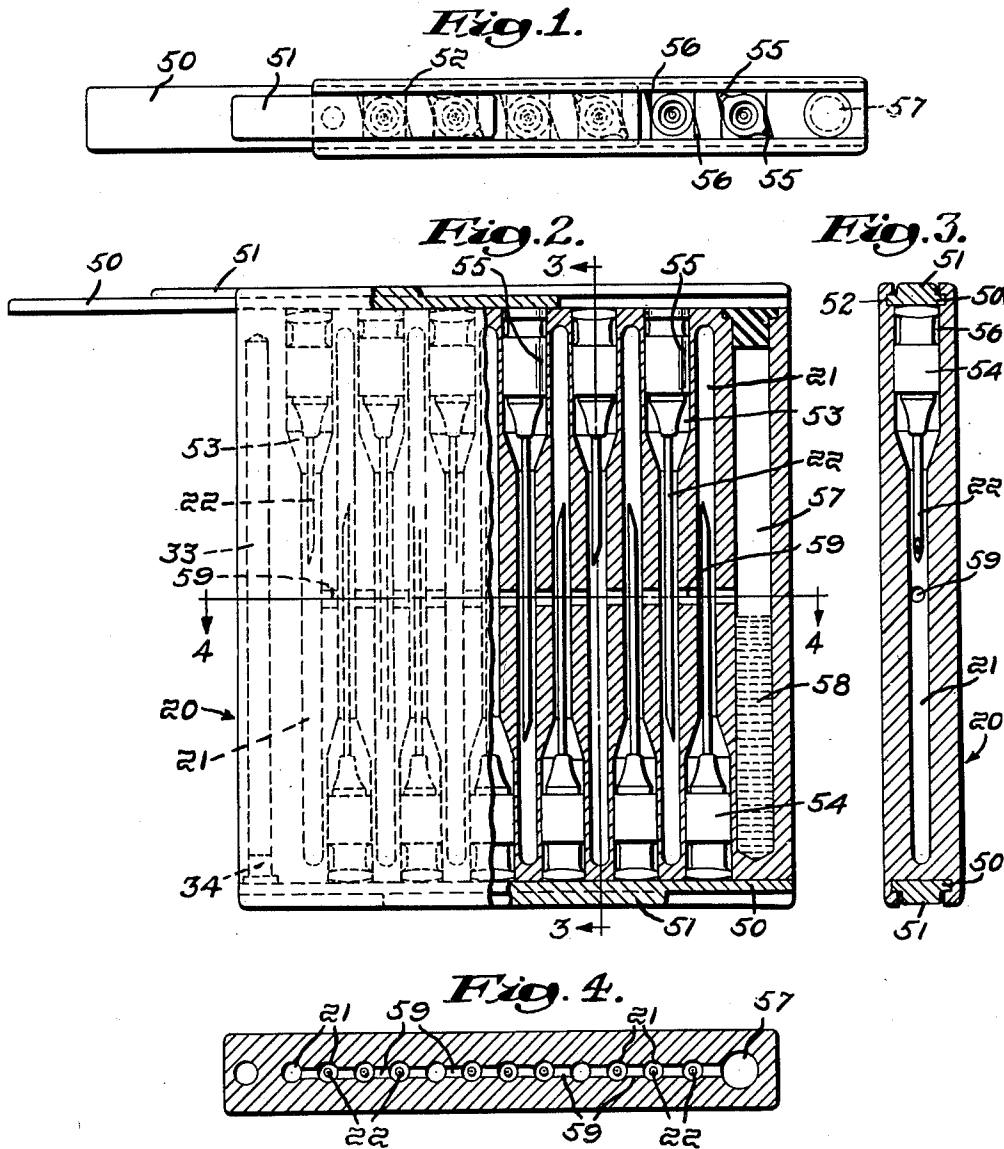
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HYPODERMIC NEEDLE HOLDER

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HYPODERMIC NEEDLE HOLDER

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3 Claims. (Cl. 206—43)

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This invention relates to hypodermic needle holders, and one object thereof is the provision of a holder for such needles that permits the insertion of the needles in the holder without danger of bending them and means integral with the holder for sterilizing the needles after they have been inserted in the holder and for maintaining them in their sterile condition.

With these and other objects in view, my invention consists in the novel features, parts and combinations of parts which are particularly described in connection with the accompanying drawings which illustrate an hypodermic needle holder that has given good results in practice.

In the drawings:

Fig. 1 is a plan view of a hypodermic needle holder embodying my invention.

Fig. 2 is a front elevation partly in section.

Fig. 3 is a transverse vertical section taken on the line 3—3 of Fig. 2.

Fig. 4 is a horizontal longitudinal section taken on the line 4—4 of Fig. 2.

In the particular drawings selected for more fully disclosing my invention and the principles underlying the same, said drawings to be considered as illustrative merely, and not restrictive, 20 represents the unitary body portion of a hypodermic needle holder having a number of parallel pockets 21 for receiving the needles 22 provided with hubs 54, the inner portion of each pocket being cylindrical for receiving a needle and the outer portion 53 being enlarged and conforming generally to the shape of the needle hubs which, in the instant embodiment of my invention are shown as square.

In the present instance the holder is designed to contain twelve needles, of which six are shown disposed in pockets extending from the top to the bottom of the holder and the other six disposed in pockets extending in the opposite direction and alternating with the first six.

A movable closure 50 is provided for each end of the body portion which, as shown in Fig. 1, consist of slides having elongated finger pieces 51 disposed in guideways 52.

It has been found convenient to provide the body portion of the holder with one or more supplemental pockets such as the tubular pocket 33, stoppered as indicated at 34, for solutions to be injected by the syringe or fine wires for clearing clogged needles.

The unitary body portion may with advantage be made of a transparent plastic, such as Lucite, by the die casting process, although any other suitable material may be used.

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In the present instance, the enlarged outer portion 53 of the needle pockets which receive the needle hubs conform generally to the shape of hubs 54 provided with oppositely disposed finger pieces or fins 55, 55. This is done by making angular cuts 56, 56 in two diagonally opposite corners of the square openings. Thus needles with square hubs as well as those with cylindrical hubs having finger pieces may be received in the pockets.

The stoppered pocket 57 contains a small quantity of volatile sterilizing medium 58, and the body portion of the needle holder is provided with a duct 59 substantially normal to the needle receiving pockets 21, said duct connecting all of said needle receiving pockets with the pocket 57, whereby the gas developed by said sterilizing medium will be conducted to said pockets. The slides may fit in their guideways tightly enough to provide a sealing means for the ends of the body portion or any other suitable sealing means may be used.

To remove a needle, the nipple of a syringe is inserted in an exposed needle hub which has a conical bore, and then turned a few degrees under pressure to secure the syringe to the needle (Luer slip joint), and the syringe raised with the needle secured thereto for use without having been touched by the hand of the operator.

Having thus described an illustrative embodiment of my invention without, however, limiting the same thereto, various modifications within the purview of the appended claims being permissible, what I claim and desire to secure by Letters Patent is:

1. A hypodermic needle holder comprising a unitary body portion provided with pockets for receiving hypodermic needles having hubs, the inner portion of each pocket being cylindrical for receiving a needle and the outer portion thereof being enlarged and conforming generally to the shape of the needle hub, a movable closure for each end of said body portion, a pocket adapted for receiving a volatile sterilizing medium disposed in said body portion substantially parallel to the needle-receiving pockets, said body portion being provided with a duct substantially normal to the needle-receiving pockets, said duct connecting all of the pockets above mentioned, whereby the gas developed by the sterilizing medium will be conducted to the needle receiving pockets, and means co-operating with each said closure for sealing the ends of said body portion.

2. A hypodermic needle holder according to

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claim 1, wherein the movable closures consist of slides disposed in grooves formed in the respective ends of said body portion.

3. A hypodermic needle holder comprising a body portion provided with needle receiving pockets, the inner portion of each pocket conforming generally to the shape of a needle and the outer portion thereof conforming generally to the shape of the needle hub, and a pocket adapted for receiving a volatile sterilizing medium disposed in said body portion, said body portion having a duct connecting all the pockets aforesaid, whereby the gas developed by said volatile sterilizing medium will be conducted to said needle receiving pockets.

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