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SHIELD FOR GLASS SYRINGES.

APPLICATION FILED JULY 22, 1920.

1,432,238. Patented Oct. 17, 1922.

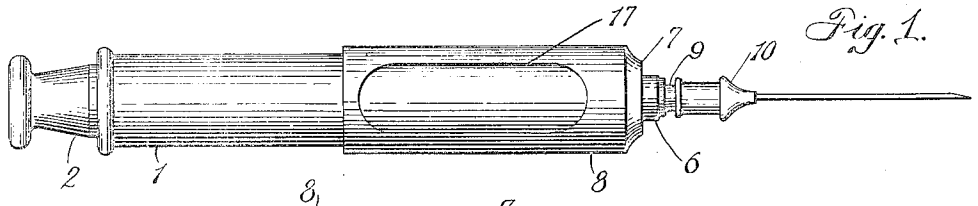


Fig. 1.

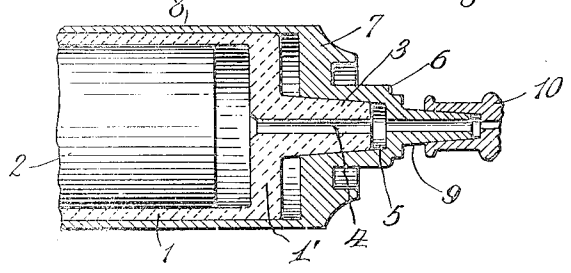


Fig. 2.

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UNITED STATES PATENT OFFICE.

LOGAN EISELE, OF RUTHERFORD, NEW JERSEY.

SHIELD FOR GLASS SYRINGES.

Application filed July 22, 1920. Serial No. 398,173.

To all whom it may concern:

Be it known that I, LOGAN EISELE, a citizen of the United States, residing at Rutherford, county of Bergen, and State of New Jersey, have invented certain new and useful Improvements in Shields for Glass Syringes, of which the following is a specification.

This invention relates to hypodermic syringes, having more particular reference to a shield or guard for hypodermic syringes constructed with glass bodies.

In syringes of this type the glass body is commonly constructed with a projecting tip on which the needle holder is mounted, and, in the ordinary construction of the syringe and mounting of the needle holder, this projecting tip is extremely liable to fracture, either during use of the syringe, or by accidental knocking of the needle holder against some part, or when it is attempted to remove the needle holder for cleaning or other purposes.

It is a general object of the present invention to so construct and mount the needle holder as to provide a shield or guard for the projecting tip on the glass body whereby liability of said tip to breakage will be obviated.

Another object is to provide a construction in which a shield or guard for all or part of the glass body proper is provided.

Still another object is to facilitate removal of the needle holder when desired.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Fig. 1 of the drawings is a side view of a hpodermic syringe having the invention applied thereto.

Fig. 2 is a fragmentary axial section on a larger scale.

As shown in the drawings, 1 indicates the body or cylinder of a hypodermic syringe and 2 the plunger therein, these parts being made of glass and ground to fit in the usual manner.

Upon the forward end 1′ of the syringe body is formed the integral projecting tip or nozzle 3 having an axial opening 4 therethrough for the discharge of the contents of the syringe.

In the embodiment of the invention shown, the tip 3 projects into a tapered bore 5 in a central boss 6 formed on a metal cap member 7 which is provided with a rearwardly projecting cylindrical extension 8 which extends substantially half way along the glass cylinder 1 and is provided with the oppositely cut out portions 17 so as to allow an unobstructed view of the cylinder. The metal cap member serves as a support or mounting for the needle element and for this purpose the boss 6 is formed with a diminished forward extension 9 which may be suitably tapered or screw threaded to engage the cup shaped base 10 of the needle element 11, a suitable passage being provided through the extension 9 to permit the passage of the contents of the syringe from the passage 4 to the needle.

In the embodiment of the invention disclosed herein the tapered tip portion 3 of the glass cylinder and the tapered bore 5 are ground to a leak proof joint whereby the use of washers or packing which are obviously objectionable for sanitary reasons, is avoided.

Having thus described my invention what I claim as new and desire to protect by Letters Patent of the United States is as follows:

1. A hypodermic syringe comprising a glass body, a cap member engaging over the forward end of the said glass body and having a rearward cylindrical extension projecting over the said glass body and a diminished forward extension adapted to support a needle base, an exteriorly tapered and ground tip on said glass body, said cap member having a complementary boring into which said tip fits.

2. A hypodermic syringe comprising a glass body, a cap member engaging over the forward end of the said glass body and having a rearward cylindrical extension projecting over the said glass body and a diminished forward extension adapted to support a needle base, a tapered tip on said glass body, said cap member presenting a comple-

mentary socket element located to the rear of said diminished extension and into which said tip fits.

3. A hypodermic syringe comprising a glass body, a cap member engaging over the forward end of the said glass body and having a rearward cylindrical extension projecting over the said glass body and admin-
ished forward extension adapted to support a needle base, an exteriorly ground tip on said glass body, said cap member having a complementary boring into which said tip fits.

In testimony whereof I have affixed my signature.

LOGAN EISELE.