

(No Model.)

J. W. DAILY.
HYPODERMIC SYRINGE.

No. 515,705.

Patented Feb. 27, 1894.

Fig. 1.

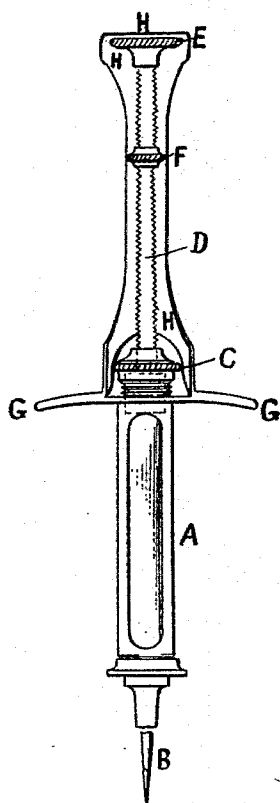


Fig. 2.

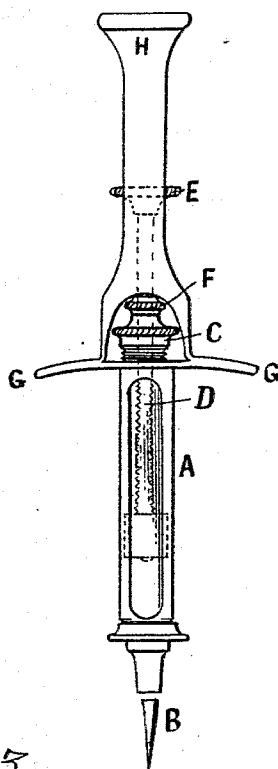
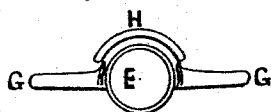


Fig. 3.



witnesses.

Charles C. Emerson
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John W. Daily,
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Attorney

UNITED STATES PATENT OFFICE.

JOHN W. DAILY, OF BOSTON, MASSACHUSETTS.

HYPODERMIC SYRINGE.

SPECIFICATION forming part of Letters Patent No. 515,705, dated February 27, 1894.

Application filed June 24, 1893. Serial No. 478,727. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. DAILY, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Hypodermic Syringes, of which the following is a specification.

The objects of my invention are to provide a hypodermic syringe which may be more conveniently manipulated, than those heretofore constructed, which require the use of both hands to administer an injection, and then frequently, very imperfect. By means of my invention but one hand is required to manipulate the syringe, leaving the other hand free, to hold, or operate any other instrument.

My hypodermic syringe is especially adapted to the treatment of rectal diseases, hemorrhoids, or piles, wherein it is very essential that the operator shall be able to manipulate the syringe with one hand while the other is employed in operating, or holding in proper position a speculum, or instrument for the purpose of inspecting the hidden tumor; and it consists in the construction, combination and arrangement of a push stem, with the cylinder and piston rod, of a hypodermic syringe, as hereinafter more fully described and specifically set forth in the claim.

In the drawings hereto annexed which form a part of this specification, reference is made.

Figure 1 represents a side elevation, showing a hypodermic syringe constructed according to my invention, in position for insertion, and injection. Fig. 2 represents a similar view of the reverse side of the same, showing the position of the operative parts, after insertion and injection. Fig. 3 represents a top plan view of the same.

A represents the cylinder of the syringe having a hollow perforated piercing needle point B, at its lower end, and a screw cap C, at its upper end and provided with a piston stem D, having a push button E upon the upper end thereof, by means of which the piston may be operated within the cylinder in

the usual manner, it being provided with a graduated scale and having a screw thread and an adjustable stop nut F, and the cylinder being provided with short right angle projecting, or transverse finger supports G, as heretofore constructed and now in general use.

Now in order to enable the operator, at all times, to force the point through and under the skin and then inject the fluid contained in the syringe, therein, by pressing inward the said piston, so as to manipulate the operative parts with one hand, I provide the said cylinder A, with a push stem H, secured to the upper end portion of the cylinder, at its lower end as shown, the upper end thereof terminating at a point, at, or about in line with the said push button E, as shown, when drawn outward to its fullest extent. Thus it will be seen and understood that the operator holding the syringe in the usual manner, the needle point is forced through and under the skin by pressing the end of the thumb upon the outward or upper end of the push stem H, then slightly withdrawing until it rests only on the piston button E, which is easily forced inward by the further movement of the end of the thumb, and the fluid injected instantaneously, as desired. It will be evident that the said push stem H, may be secured at its lower end directly to the screw cap C, which may be removed and replaced by turning the push stem H, in the proper direction, and thereby serve the objects contemplated by my invention.

Having thus described my invention, what I claim is—

A hypodermic syringe having an auxiliary push stem at one side of the piston and projecting parallel therewith, for the purposes set forth.

JOHN W. DAILY.

Witnesses:

SYLVENUS WALKER,
WALTER S. RICH.

It is hereby certified that Letters Patent No. 515,705, granted February 27, 1894, upon the application of John W. Daily, of Boston, Massachusetts, for an improvement in "Hypodermic Syringes," were erroneously issued to said Daily as sole owner of the invention; that said Letters Patent should have been issued to said *John W. Daily and Chester F. Hardon, jointly*, each being owner of one-half interest, as shown by the record of assignments in this office; and that said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 6th day of March, A. D. 1894.

[SEAL.]

JNO. M. REYNOLDS,
Assistant Secretary of the Interior.

Countersigned:

JOHN S. SEYMOUR,
Commissioner of Patents.