

*J. Stull,
Syringe.*

N^o 14,524.

Patented Mar. 25, 1856.

Fig. 1.

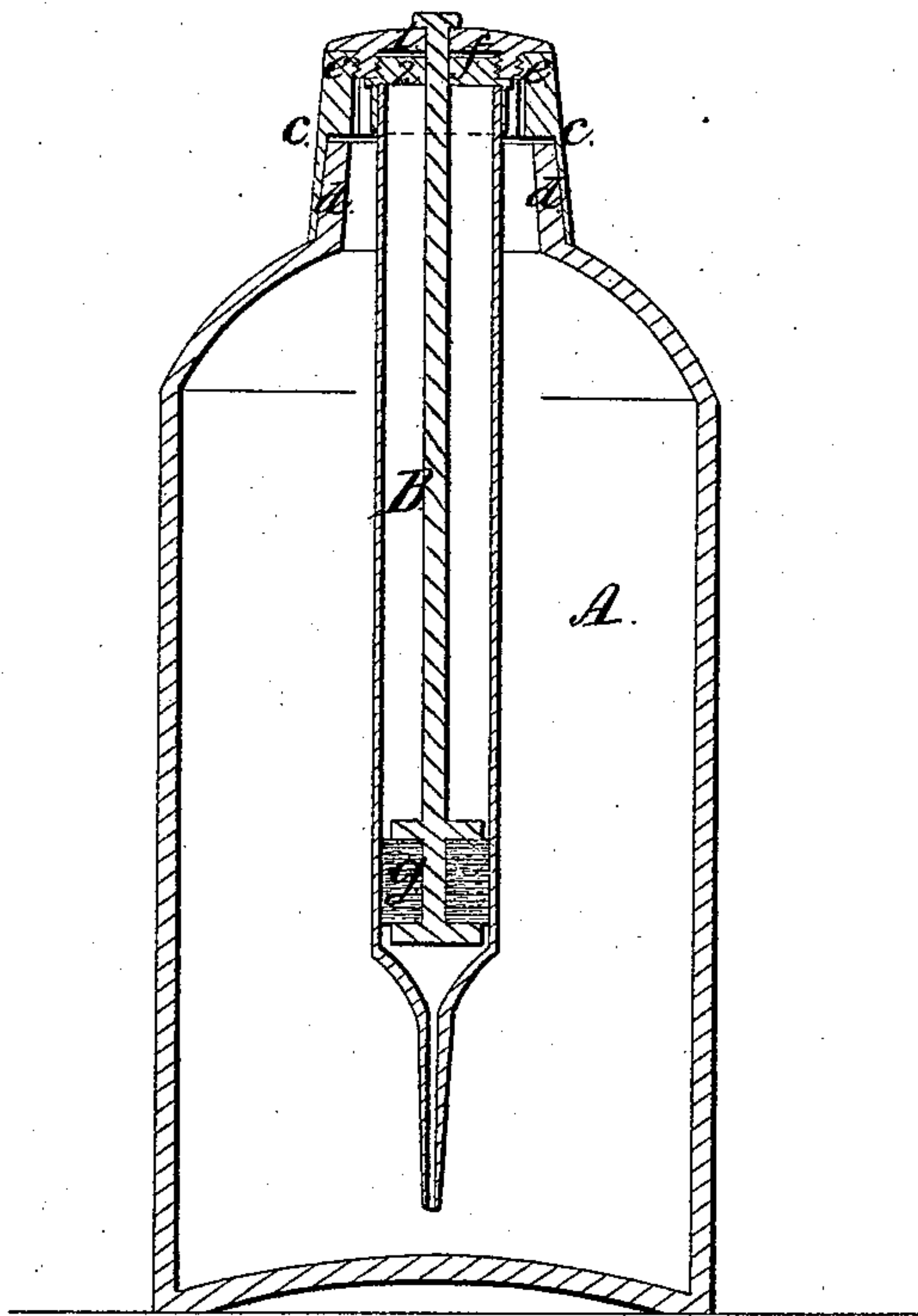
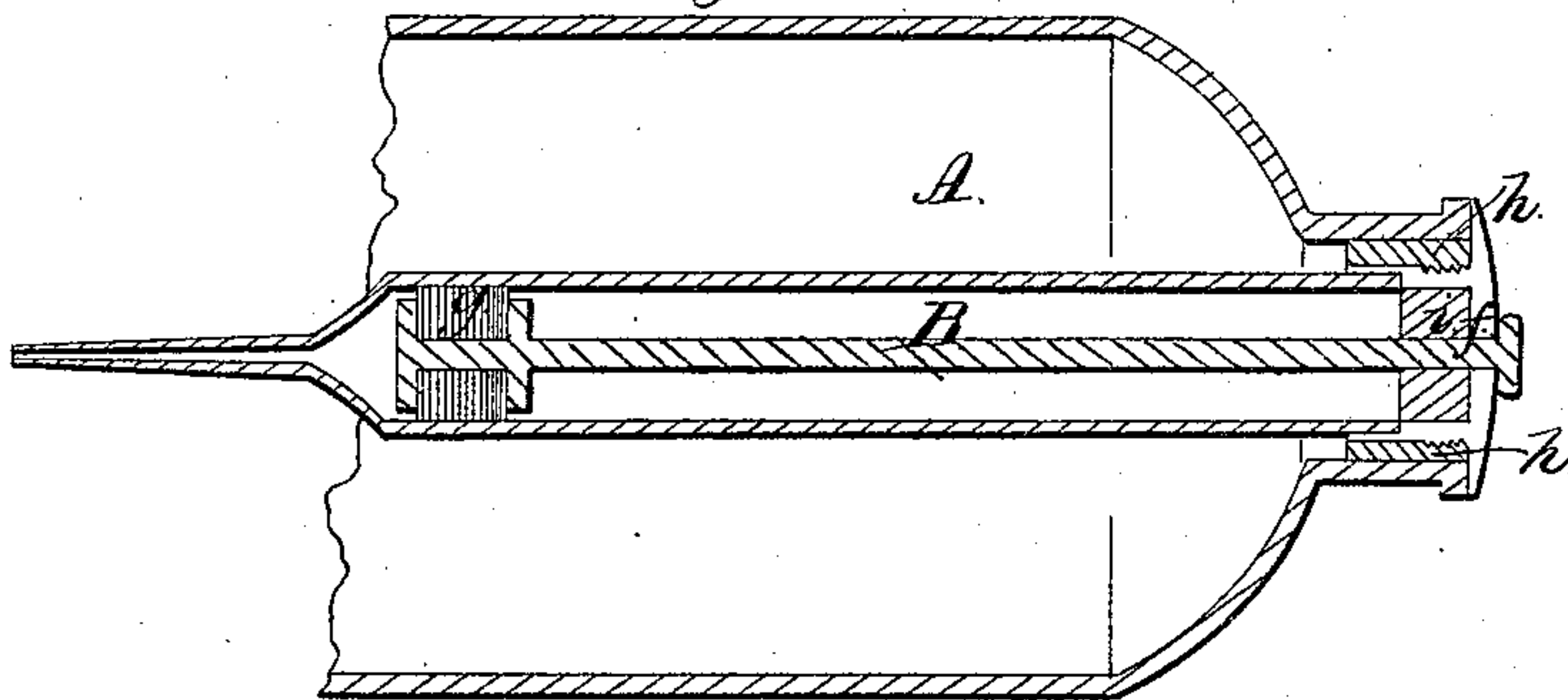


Fig. 2.



Witnesses.

*Charles D. Freeman
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UNITED STATES PATENT OFFICE.

JNO. STULL, OF PHILADELPHIA, PENNSYLVANIA.

SYRINGE-BOTTLE FOR MEDICINAL AGENTS.

Specification of Letters Patent No. 14,524, dated March 25, 1856.

To all whom it may concern:

Be it known that I, JOHN STULL, of the city of Philadelphia and State of Pennsylvania, have invented a new and Improved Syringe-Bottle; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in so combining or adapting together a syringe and bottle, that the latter shall serve as a protective case for the former, as well as a receptacle for the medicament to be used thereby.

Referring to the drawings, Figure 1 is a central, vertical section of the bottle and syringe as secured together for carriage (the neck of the bottle having a metallic band fixed around it which receives the syringe and holds it securely within the bottle by means of screw threads cut in each), so that the latter form a perfectly close stopper to the mouth of the former; and Fig. 2, a like sectional representation, showing the syringe united with a common cork, and adapted for the same purpose to the common mouth of a bottle.

In both figures A, represents the bottle, and B, the syringe.

In adapting the syringe to serve as the stopper for the bottle, I usually fit and cement permanently a metallic band (c) Fig. 1, around the outside of the neck (d) of the bottle, having a screw thread (e) cut a short distance down on its inner side, and within this the cap (f) of the syringe is adapted to screw so as to form a close stopper. This cap is made in two parts (1 and 2) screwed together, and which may be readily separated when it is desired entirely to withdraw the piston from the syringe, the one part (2) being cemented permanently to the syringe. The cylinder, pipe, and piston rod of the syringe, like the bottle, is made of glass—the piston rod passing freely through the cap in the usual manner. The packing (g) around the piston, effectually preventing the escape of the contained medicament from the bottle through the syringe.

In adapting the syringe to the neck of a common bottle (Fig. 2) the cap is fixed to the syringe in a similar manner, but instead of its screwing into a metallic band, as in the other case, it is inserted through a common ligneous cork (h) which is afterward fitted in the mouth of the bottle as shown in the figure—the end through which the piston is withdrawn, when so required for “packing,” being also fitted with cork (i)—the piston rod working through it and the cap plate (f) in the same manner as in the other case.

I also contemplate making the bottle serve the purpose of a case for the protection of the syringe in a more simple manner, by making the bottle with a longitudinal recess or cavity on the outside sufficiently capacious for the reception therein of the whole of the syringe—in which case a common stopper or cork may be adapted for closing the mouth of the bottle.

Operation: The apparatus being constructed in either of the two first modes described, the bottle is to be filled with the medicament adapted for the particular affection requiring the use of a syringe in its treatment, and perfectly secured therein by means of the syringe as a stopper. When required for use, the syringe is merely unscrewed or withdrawn from the bottle and the medicament applied therewith in the usual well known manner.

Having thus described the nature, construction and mode of operation of my invention, and pointed out several modes in which I contemplate its construction, I proceed to state that I do not confine my claim to either of the particular modes described of constructing the apparatus; but

What I claim as my invention and desire to secure by Letters Patent, is—

The combination and arrangement of a syringe and bottle so that the latter shall serve as a protective case for the former, as well as a receptacle for the medicament to be used thereby, substantially as described.

JOHN STULL.

Witnesses:

CHARLES D. FREEMAN,
ROBERT W. JONES.