J. SILVERSTEIN.

RUST PREVENTIVE DEVICE FOR GUN BARRELS.

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**1,172,746.** Patented Feb. 22, 1916.

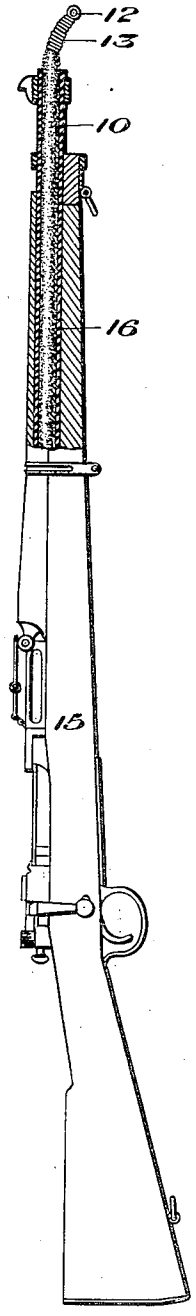



Fig. 1

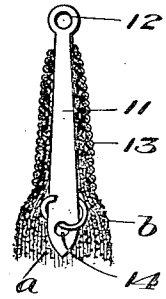



Fig. 3.




Fig. 2.

Witnesses

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# UNITED STATES PATENT OFFICE.

JACOB SILVERSTEIN, OF WILKES-BARRE, PENNSYLVANIA.

## RUST-PREVENTIVE DEVICE FOR GUN-BARRELS.

1,172,746. Specification of Letters Patent. Patented Feb. 22, 1916.

Application filed September 3, 1915. Serial No. 48,821.

*To all whom it may concern:*

Be it known that I, JACOB SILVERSTEIN, a citizen of the United States, residing at Wilkes-Barre, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Rust-Preventive Devices for Gun-Barrels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to improvements in gun swabs, gun cleaners, or the like, and more particularly to a construction of such character which admits of its use as a rust preventive filler for the bore of a gun, as well as a cleaner for the same.

An object of the invention is to provide a simple and inexpensive device of the character mentioned, and one which has a length, slightly greater than the length of the barrel of a gun, to entirely fill the bore of the latter.

Another object of the invention is to provide a swab of this type which is of a diameter, slightly greater than that of the bore of the gun-barrel, so that the same snugly contacts the entire surface of the latter, when drawn therethrough, and acts to prevent moisture having access thereto, when positioned therein in a manner to completely fill the bore.

A further object of the invention is to provide a swab of the character mentioned, and one which is constructed of an absorbent material to admit of its being saturated with a cleaning fluid, or an anti-rust solution, so that the entire surface of the bore of a gun-barrel may be coated with the same, and retained in such coated condition, just as long as the swab is positioned therein.

With these and other objects in view, the invention resides in a certain new construction, which will be hereinafter more fully described, set forth in the appended claims, and illustrated in the accompanying drawing, in which:—

Figure 1 is a side elevation, partly in section, of a conventional form of gun or rifle with the invention applied thereto. Fig. 2 is a perspective view of the device, *per se*, and, Fig. 3 is an enlarged fragmentary detail of one end of the device, showing a drawing-head attached thereto, by means of which the device is drawn through the barrel of a gun.

Referring to the drawing, in which similar characters of reference designate corresponding parts in the several views thereof, the numeral —10— indicates the body of the device, which consists of a desired length of absorbent fibrous material *a*, or any number of lengths of such material, preferably shaped into rope form, by means of a braided, or otherwise suitably intermeshed, outer covering *b* of a textile material, as shown in Fig. 3.

Projecting from one end of the body —10— is a drawing-head —11—, preferably formed of a flat metal strip shaped with forwardly converging side walls, as shown, and having its outer end provided with an eye —12—, by means of which the body may be positioned within, or drawn through, the bore of a gun. The material of the body, surrounding the tapered portion of the drawing-head —11— is secured to the latter by means of a coiled wire wrapping —13—, one end of which is engaged in an opening —14—, formed in the rear end of the drawing-head —11—, for the purpose. In the preferred use of the device, thus provided, the drawing-head —11— is inserted into the breech end of the bore of the gun-barrel, a conventional form of gun showing the device applied thereto being shown in Fig. 1 and designated by the numeral —15—, and is drawn to the forward end of the barrel —16—, by means of a wire, or other suitable means (not shown), and is left positioned therein, when the gun is not in use, or during its transportation from place to place, particularly in damp weather, or it may be passed entirely through the bore, in a manner common to the prevailing practice of gun cleaning.

The invention contemplates the device being saturated with a suitable cleaning fluid, in the one instance, or an anti-rust solution, in the other instance, and, as shown, the diameter of the same is made slightly greater than that of the bore of the gun-barrel, so that, when properly positioned therein, it is compressed and snugly contacts the wall of the bore throughout its length, and, when so saturated, thoroughly coats the surface with a film of the cleaning or anti-rust fluid used for the purpose.

In view of the foregoing, it will be ob-

vious that the invention provides a means for preventing the possible formation of rust within the bore of a gun-barrel, such as is not obtainable in the ordinary manner as is now the case, that is, simply swabbing out the bore with an oiled cleaner and forming a film over the surface, since, different degrees of temperature or of humidity cause this film, so formed, to expand or contract, to thin or thicken, and eventually, instead of covering the entire surface of the bore, it breaks apart, sometimes even collecting in small globules, and thus leaves part of the metal surface exposed to moisture laden air and its ruthless ravages.

Having thus fully described the invention, what is claimed is:—

1. Means for preventing the formation of rust in gun-barrels comprising an elongated body of porous material and a covering of interwoven textile material approximately the length of a gun-barrel, saturated with a rust preventive, and adapted to fill the bore of the barrel of the gun throughout its length.

2. Means for preventing the formation of rust in gun-barrels comprising an elongated body of fibrous material and a covering of interwoven textile material approximating the length of a gun-barrel, saturated with a rust preventive, and adapted to fill the bore of the barrel of the gun throughout its length.

3. Means for preventing the formation of rust in gun-barrels comprising an elongated body consisting of a plurality of strands of fibrous material and a cover of interwoven textile material approximating the length of a gun-barrel, saturated with a rust preventive, and adapted to fill the bore of the barrel of the gun throughout its length.

4. Means for preventing the formation of rust in gun-barrels comprising a rope like body of an absorbent material and a covering of interwoven textile material, a drawing head carried at one end of the body, and means for securing the head in position.

5. Means for preventing the formation of rust in gun-barrels comprising a rope like body of an absorbent material and a covering of interwoven textile material, a drawing head carried at one end of the body, and a coiled wire wrapping for securing the head in position.

In testimony whereof I affix my signature, in presence of two witnesses.

JACOB SILVERSTEIN.

Witnesses:
W. G. BUTLER,
W. H. GIBBS.