(No Model.)

F. C. TAYLOR.

CARTRIDGE AND WIPER.

No. 270,616 Patented Jan. 16, 1883.

Fig. 1.

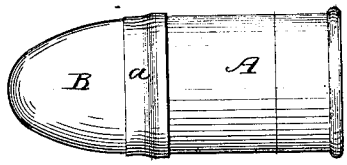


Fig. 2.

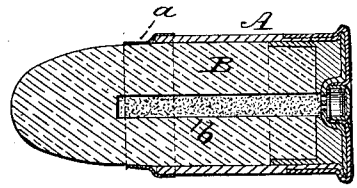
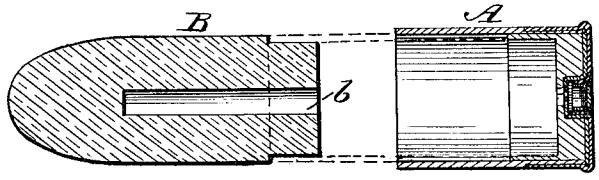


Fig. 3.



WITNESSES

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CARTRIDGE AND WIPER.

SPECIFICATION forming part of Letters Patent No. 270,616, dated January 16, 1883.

Application filed April 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS CORNWALL TAYLOR, a citizen of the United States, residing at Danbury, in the county of Fairfield and State of Connecticut, have invented certain new and useful improvements in a cartridge for cleaning and lubricating breech-loading fire-arms in process of firing; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side elevation of my invention; Fig. 2, a sectional view of the same; and Fig. 3, a similar view, showing the felt or wiper detached from the cartridge-shell.

The present invention has relation to means for wiping or cleaning out and also lubricating the bore of a gun, rifle, or other fire-arm; and it consists in constructing it in the form of a cartridge, so that the wiper will be forced through and out of the barrel by the projecting charge of fulminate or powder contained in the wiper of the cartridge, as will be hereinafter described.

In the accompanying drawings, A represents the shell or case of the cartridge, of paper or metal, as found desirable. The shell or case A may be of the ordinary form and construction, and either a central or rim fire, it being provided with the usual means for igniting the charge contained in the wiper.

Within the case or shell A is inserted the wiper B, composed of felt or other like material, which may be covered with black-lead and oil or other suitable lubricating compound, said wiper being of greater length than and preferably retained in the cartridge shell or case by a slip of thin paper, as shown at *a*, which is pasted around the cartridge shell or case and wiper, this said binding of paper also serving to increase the resistance to the passage of the wiper and the prevention of windage. The felt extends to the base of the cartridge-shell, and the powder or fulminate is contained within the recess or bore *b* in the felt, and thereby the powder is burned wholly within the same upon its ignition.

It will be noticed that the bore *b*, for containing the powder or fulminate, extends nearly the whole length of the cartridge, to or beyond the line of taper, the object thereof being to produce instantaneous expansion at the commencement of taper, which would necessarily delay the travel of the wiper, and thereby increasing its capacity for wiping. By extending the powder-cavity to or beyond the line of taper of the felt or wiper, and beyond the shell, the result is the instantaneous expansion of the wiper on the outside of the shell and inside of the barrel, causing that portion of the felt or wiper within the shell to be delayed in its travel along the bore of the fire-arm to increase its effectiveness, the explosion causing the said felt or wiper to expand sufficiently to close the orifice and carry from the bore of the fire-arm all the gas, smoke, or foulness remaining therein.

I do not wish to be understood as confining my invention to any special material from which to construct the wiper, nor to any particular form or construction of the cartridge shell or case, as they may be changed or modified as found desirable without departing from my invention.

In contradistinction to the usual lubricating-wad, it will be noticed that the wiper B is of such length as to fill the interior of the shell A and extend out some distance beyond the same, the powder being contained in a central bore formed in the wiper, thereby producing instantaneous expansion, which would necessarily delay the travel of the wiper and increase its effectiveness or capacity for wiping. The wiper being of greater length than the case or shell, or, in other words, projecting beyond the same, also increases its effectiveness for wiping as it is projected along the barrel.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a cartridge-shell, of a wiper composed of felt or other like material contained therein and projected beyond the end thereof, said wiper having a central bore or cavity containing the powder or fulminate, substantially as and for the purpose set forth.

2. The combination, with a cartridge shell or casing, of a wiper of felt or other like ma-

terial, of greater length than said shell, and containing a charge of fulminate or powder, substantially as and for the purpose specified.

3. A cartridge-shell containing a wiper of felt or other like material, having a central bore or cavity for the reception of the charge of powder or fulminate, said wiper projecting beyond the shell and having its end tapering, substantially as shown, and for the purpose described.

4. A cartridge-shell or casing containing a wiper of felt or other like material, the same having a central bore or cavity, which, together with said wiper, projects beyond the end of the shell or casing, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

FRANCIS CORNWALL TAYLOR.

Witnesses:
ANDREW ZANE, Jr.,
CHAS. MATHEWS, Jr.