D. STRICKLER.

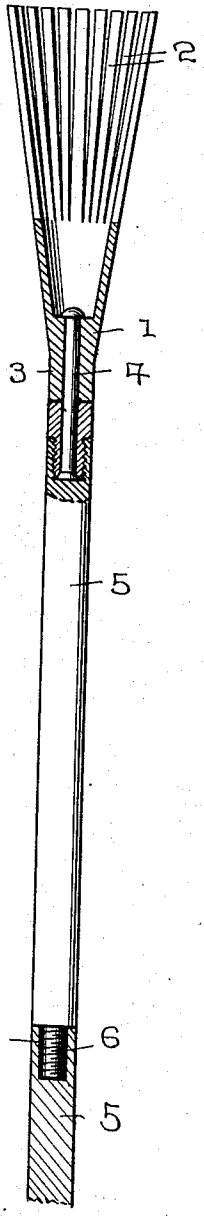
RIFLE BORE CLEANER.

APPLICATION FILED FEB. 21, 1911.

1,015,915.

Patented Jan. 30, 1912.

Fig. 2.



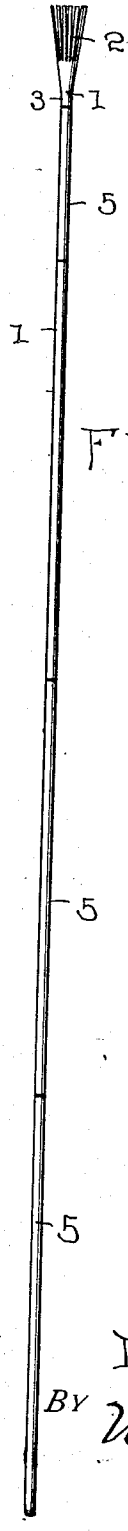
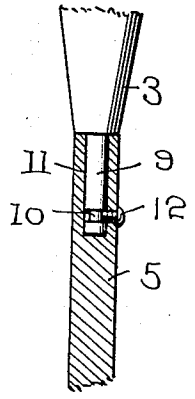


Fig. 1.

Fig. 3.

Fig. 4.



WITNESSES:

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RIFLE-BORE CLEANER.

1,015,915. Specification of Letters Patent. Patented Jan. 30, 1912.

Application filed February 21, 1911. Serial No. 609,866.

To all whom it may concern:

Be it known that I, DAVID STRICKLER, a citizen of the United States, residing at Shelby, in the county of Richland and State of Ohio, have invented certain new and useful Improvements in Rifle-Bore Cleaners; 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.

This invention relates to devices for cleaning the bore of gun barrels or cannons and the object of the invention is to provide a device which will effectually clean the bore of a gun or rifle, cutting from the sides thereof all lead, burned charges, etc., adhering thereto from firing the firearm.

Another object of the invention is to provide a device of this character which may be connected to a series of extension rods to adapt the same to the various lengths of guns or cannons.

Another object of the invention is to provide a bore cleaner which is adapted to rotate as it is thrust into the firearm to clean the inner surface effectively.

A further object is to construct a device of this character adapted to be used in connection with brushes which may be interchangeably connected to the extension rods, one brush or cleaning member adapted to scrape the foreign matter loose from the interior of the barrel or bore, and the other to brush the loosened matter out of the firearm.

Other objects and advantages will be hereinafter set forth and pointed out in the specification.

In the accompanying drawings which are made a part of this application, Figure 1 is a view of the complete device secured to the ordinary jointed extension rod, Fig. 2 is an enlarged detail view (partly in section) of the cleaner, the rod being broken away slightly below the first joint, Fig. 3 is a view of the upper end of the device, showing a swab or removing brush secured thereto, to brush out the dirt loosened by the cleaner, and Fig. 4 is a fragmentary detail view (partly in section) of the form of swivel connection between the brush and the rod.

Referring in detail to the drawings, the various parts of my invention and coöperating accessories will be designated by numerals, of which—

1 indicates a hollow conical body, the outer end of which is substantially of about the same diameter as the bore of the gun, while 2 indicates a plurality of integral split portions or prongs designed to perform the office of cleaning the bore of the gun, the normal position of said prongs (which are a continuation of the bell like or conical body 1) being in a continuation of the plane occupied by the walls of said body.

The numeral 3 designates the body or anchoring portion, which is formed integral with the flared or conical section 1 and is provided with a centrally disposed or diametrical bore in which the anchoring pin 4 is mounted, said pin being anchored in any suitable way in the end of the first extension rod 5.

The extension rods 5 may be secured to one another in any suitable manner, but are preferably provided upon one end with a hollow internal portion 6 and upon the opposite end with the threaded reduced extension 7, the threaded extension of one rod screwing within the threaded recess of the adjacent rod 5. The swab or removing brush 8 (which may be composed of any suitable material) is secured to one end of the rod 5 in any suitable manner.

The cleaning member or the swab may be, if so desired, secured to the rod 5 as shown in Fig. 4. In this instance the head of the cleaning member is provided with a reduced extension 9 having the circumferentially arranged groove 10. The adjacent end of the rod 5 is provided with a recess or bore 11, to accommodate the extension 9, and extending through the side of the rod 5 is the retaining and guiding screw 12, the inner end of which rests within the groove 10, to hold the cleaning member within the end of the rod 5 for rotation therein.

It will be apparent that the above described cleaning device may be made of any size or of any suitable material for use with any type of firearm from the smallest rifle or pistol to the largest cannon. It will also be apparent that any number of extension rods may be employed, and that when made for use with pistols or guns of ordinary size, the device may be carried within the user's pocket.

In use when the barrel of a gun or pistol

or a cannon requires cleaning for effective operation, the cleaning member is connected with the required number of extension rods 5, the outer ends of the resilient prongs or cutting members 2 compressed or brought closely together and inserted within the end of the firearm to be cleaned. The device is then forced into the gun or other firearm, by exerting pressure against the outer end of the handle or rod 5. As the brush travels within the bore, it is rotated by means of the spirally formed interior of the bore and the resilient prongs 2 thus come in contact with every portion of the surface and scrape the foreign matter from said surface. The device is then withdrawn from the bore, the swab or removing brush secured upon the rods 5 after the loosening member has been detached therefrom, and the operation just described repeated. This brush, however, instead of scraping the interior of the bore serves to sweep the same and remove the foreign matter loosened therefrom by the cleaning brush.

By the construction which I have provided it will be observed that since the outer end of the flared or bell like body portion 1 is substantially of the same diameter as the bore of the gun, it follows that the plurality of prongs when compressed within the bore will lie substantially parallel with the interior surface thereof and as a consequence the edges of the said prongs will be caused to intimately or closely contact the surface of the bore throughout their entire length and will consequently more effectively remove any foreign particles therefrom, as corrosion, or the like. It follows that the resilience of each of the prongs will insure that it will bear most sharply against said surface, while the extreme or free ends of the prongs will follow the rifling in the bore.

What I claim is:

A gun bore cleaner comprising interlocking extension rods, in combination with a cleaning head proper, consisting of a conical, hollow body portion having integral, flexible extensions or prongs, the upper end of said conical body being substantially of the same diameter as the bore of the gun, the said conical section being integrally formed with the body portion 3, the latter having a diametrical bore, and a pin provided with a head resting in the hollowed portion of said conical body and connected with the end of the extension rod.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DAVID STRICKLER.

Witnesses:

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A. B. MABEE.