

G. G. MILLER.
GUN BARREL CLEANER.
APPLICATION FILED FEB. 8, 1912.

1,041,839.

Patented Oct. 22, 1912.

Fig. 1.

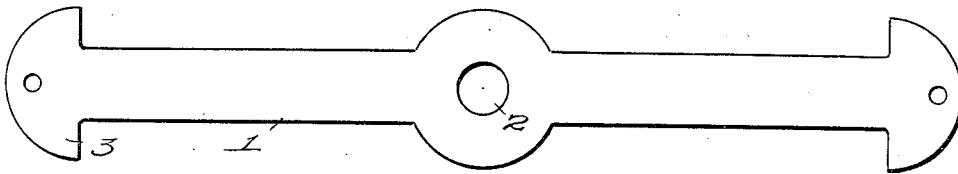


Fig. 2.

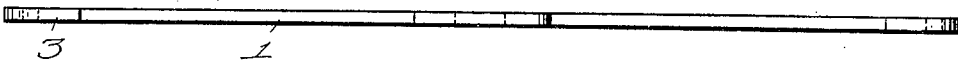


Fig. 3.

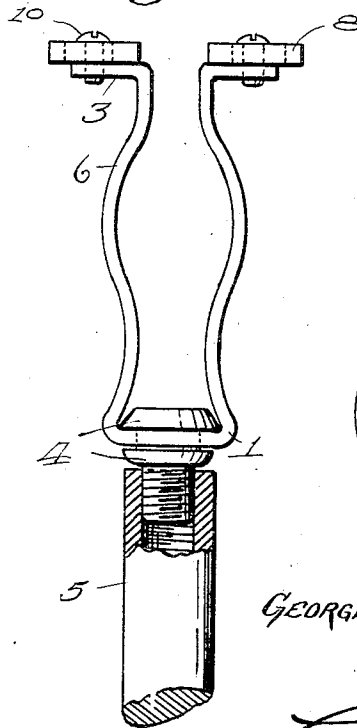


Fig. 5.

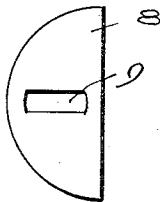


Fig. 6.

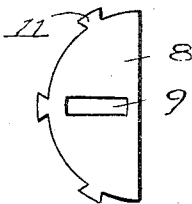
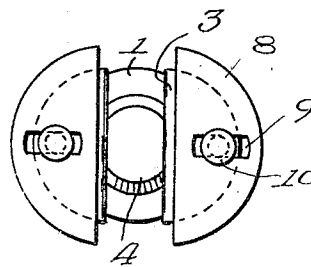


Fig. 4.



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UNITED STATES PATENT OFFICE.

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GUN-BARREL CLEANER.

1,041,839.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE GUY MILLER, citizen of the United States, residing at Lebanon, in the county of Lebanon and State of Pennsylvania, have invented certain new and useful Improvements in Gun-Barrel Cleaners, of which the following is a specification.

The object in the present invention is to provide a cleaner of simple construction, one that is durable and one in which gun and rifle barrels of varied bores may be cleaned.

The invention consists of a piece of sheet metal, preferably sheet steel, cut into the desired shape, as that of the drawing, and bent to form substantially a U-shaped body, the extremities of which are set at right angles and provided with cleaner blade engaging means, while the center of the device is provided with a swivel for engagement with the cleaner rod. In addition to this plate there are a pair of removable and adjustable cleaner blades secured to the right angled ends of the plate.

By my present construction, the cleaner may be used indefinitely, it being only necessary to change the blades when they are worn out.

The invention is more fully described in the following specification and clearly illustrated in the accompanying drawing, in which:—

Figure 1 is a plan view of the plate as it is blanked, before bending and Fig. 2 is an edge view thereof. Fig. 3 is an elevation of the cleaner complete, with the blades in position, and attached to the cleaner rod. Fig. 4 is a plan view of Fig. 3. Fig. 5 is a detail view of one of the removable blades and Fig. 6 shows a modified form of blade, intended for use in a barrel formed with a rifled bore.

The numeral 1 designates the blank from which the device is made. This is formed with a central perforation 2 and a slight enlargement 3 at each end and these enlargements are each perforated to receive a screw.

The numeral 4 designates a swivel, which is placed in the central perforation 2 of the blank before it is bent, and this swivel has a screw-threaded end to receive the end of a cleaner rod 5. After the swivel is in posi-

tion, the blank 1 is bent to form a substantial U-shaped body, its vertical walls 6 being set at any desired curve or angle, so that when pressed toward each other they will tend to open again when released. The upper extremities of the walls, that is the enlargements 3, are set at right angles to the vertical walls, being bent outwardly, and on the same plane. To the top surfaces of these right angled ends, I secure a pair of barrel cleaning blades 8, each of which is formed with an elongated slot 9 through which a screw 10 passes and holds them in position on the parts 3, in which engagement they are adjustable, to provide for different size barrel bores, and from which they may readily be removed for sharpening or replacing. These blades may, if desired, as for instance in the case of a rifle formed with a rifled bore, be formed with a series of peripheral projections 11 so that in passing through the rifle bore the entire surface will be cleaned.

It is evident that with my device, secured to the end of a cleaning rod and having the swivel connection, the mere act of moving the rod into and out of the barrel will thoroughly clean its inner surface, the swivel permitting the cleaner to adjust itself to any irregularities in the barrel. It is also evident that by means of the adjustable blades I may adjust the device for cleaning barrels of different sizes, or for tubes of any kind other than gun barrels. It is also evident that the blades when dulled may be readily removed and sharpened.

While the body portion of the device is preferably of spring steel, the blades may be of any hard substance, either hardened and tempered steel or some equally serviceable substance.

Having thus fully described my invention, what I claim and desire to secure by Letters Patent is:—

1. In a gun barrel cleaner, a resilient body portion of substantially U-shape, and having its ends bent at right angles there- to, a swivel secured to the center of the body for engagement with a cleaner rod, and a pair of adjustable cleaner blades removably secured to the right angled ends and lying on the same plane.

2. In a gun barrel cleaner, a resilient body

formed of a sheet of metal bent to U-shape,
the ends of which are set at right angles
thereto, a swivel located at the base of the
U-shaped body for engaging a cleaner rod,
5 and a pair of blades removably and adjust-
ably secured to the right angled ends of the
body portion.

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

GEORGE GUY MILLER.

Witnesses:

SAML. R. SMYTH,
JAMES G. MOORE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."