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E. H. WILLIAMS

COMBINED STOP AND HANDLE FOR BORE CLEANING RODS

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Fig. 1.

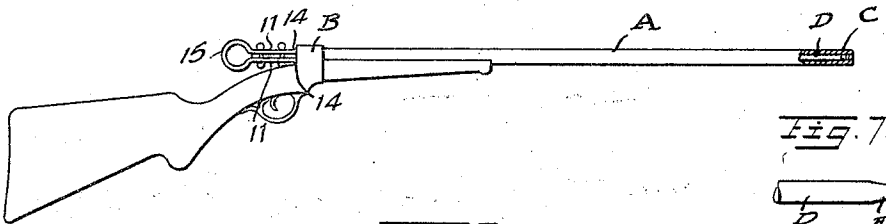


Fig. 2.

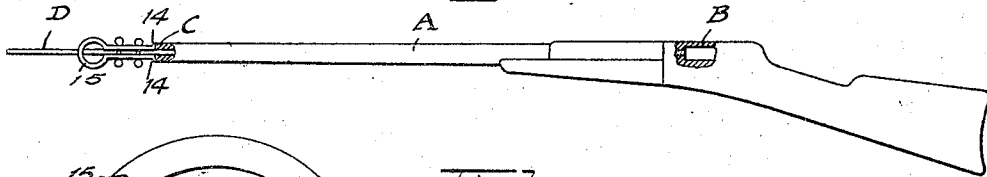


Fig. 3.

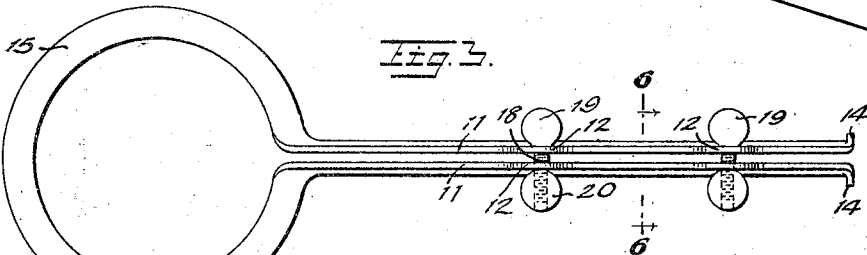


Fig. 4.

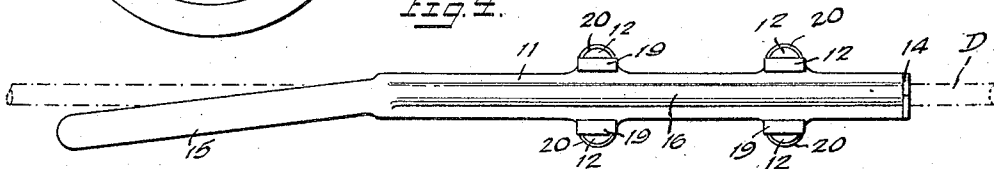
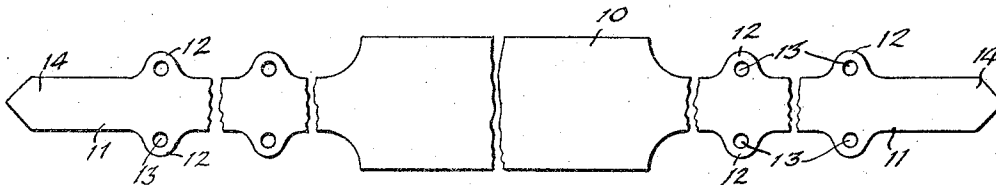


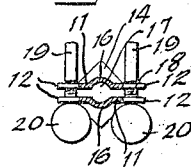
Fig. 5.



WITNESSES

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Fig. 6.



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UNITED STATES PATENT OFFICE.

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COMBINED STOP AND HANDLE FOR BORE-CLEANING RODS.

Application filed May 2, 1923. Serial No. 636,210.

To all whom it may concern:

Be it known that I, EDWARD H. WILLIAMS, a citizen of the United States, and a resident of Eureka, in the county of Humboldt and State of California, have invented a new and Improved Combined Stop and Handle for Bore-Cleaning Rods, of which the following is a full, clear, and exact description.

This invention has relation to cleaning implements and has particular reference to a cleaning rod for gun barrel bores.

In use of the common forms of cleaning rods, especially those having a notched end with which the rag or waste is associated, for cleaning the bore, there is a constant tendency for the end of the rod to protrude from the barrel at the breech or muzzle, thus allowing the rag or waste to detach itself from and fall off of the cleaning rod. While this fault may be overcome to some extent by placing the hand over the muzzle or breech of a barrel of the shorter type, it is nevertheless an inconvenient and difficult operation where the barrel is of maximum length.

It is therefore the principal object of the present invention to provide as a new article of manufacture a member for longitudinally adjustable association with a cleaning rod to constitute a stop for engagement with one end of the barrel to limit the movement of the cleaning rod and prevent the entire projection of the end of the rod from the barrel.

As a further object the invention contemplates a combined adjustable handle and guard of the character set forth which is extremely simple in its construction, inexpensive to manufacture and which is highly efficient in its purpose.

With the above recited and other objects in view, the invention resides in the novel construction set forth in the following specification, particularly pointed out in the appended claims and illustrated in the accompanying drawing, it being understood that the right is reserved to embodiments other than those actually illustrated herein to the full extent indicated by the general meaning of the terms in which the claims are expressed.

In the drawing—

Figure 1 is a view illustrating a cleaning rod equipped with the attachment when used from the breech end of the gun.

Fig. 2 is a similar view of the same when used from the muzzle end of the gun.

Fig. 3 is an enlarged detail side view of the handle and guard or stop removed from the cleaning rod.

Fig. 4 is a plan view thereof.

Fig. 5 is a plan view of the blank from which the handle and guard is constructed prior to the bending of the same.

Fig. 6 is a sectional view taken approximately on the line 6—6 of Fig. 3.

Fig. 7 is an enlarged detail view of one end of the cleaning rod with which the device is associated.

Referring to the drawing by characters of reference, A designates a gun barrel, B the breech end thereof and C the muzzle end. D designates a cleaning rod which is movable through the gun barrel and is preferably provided at one end with a notch E for the association therewith of a cleaning rag or waste.

The combined handle and guard or stop which constitutes the invention is preferably constructed of a sheet of material which is stamped out to provide an enlarged medial portion 10 and extensions 11 from the opposite end thereof which are of lesser width than the medial portion and are provided with longitudinally spaced pairs of ears 12 formed on the opposite side edges of said extension, said ears being perforated or apertured as at 13, the free extremities of the extensions 11 being preferably pointed as at 14. In forming the device, the medial portion 10 is transversely curled upon itself and at the same time bent into substantially split ring form to provide the handle portion 15 of the completed device. The reduced extensions 11 project from the opposite ends of the split ring-shaped handle and are disposed in substantially parallel relation with the longitudinal center of their confronting faces depressed outwardly as at 16 to form at their outer sides a longitudinal strengthening rib, while producing on their inner sides complementary cleaning rod receiving grooves 17. This arrangement of the extensions 11 disposes the apertured ears 12 in alignment to receive therethrough the threaded shanks 18 of thumb screws 19 which shanks are threadedly engaged in the spherical nuts 20. The outer pointed terminals 14 of the extensions 11 are bent out-

wardly to provide, when the device is associated with a cleaning rod, stop shoulders and at the same time produce a flared mouth for the insertion of the cleaning rod when associating the same with the device. In order to compensate or allow for the positioning of the handle and stop or guard on a cleaning rod wholly within its ends, the handle 15 is bent laterally as illustrated in Fig. 4.

In use and operation the combined handle and guard or stop is associated with the cleaning rod and is adjusted longitudinally thereon to a position whereby the distance between the stop shoulders 14 and the opposite end of the cleaning rod D corresponds substantially to the length of the bore of the barrel A. The set screws 19 are then manipulated to tightly clamp the extensions 11 against the cleaning rod. It thus follows that when the cleaning rag or waste is associated with the notched end E, the cleaning operation is greatly facilitated due to the fact that the end of the cleaning rod with which the rag or waste is associated is prevented from being projected beyond the end of the barrel by the engagement of the out-turned ends 14 with the breech or muzzle end of the barrel according to the manner in which the device is used. In Fig. 1 the stop shoulders are illustrated as engaging with the breech to limit the projection of the opposite end of the cleaning rod from the muzzle, while in Fig. 2 the stop shoulders 14 are illustrated as engaging with the muzzle to prevent the projection of the opposite end of the cleaning rod from the breech end of the bore into the cartridge chamber. It thus follows that a single cleaning rod may be advantageously used in connection with fire arms having barrel bores of various lengths by simply adjusting a combined handle or stop and guard member longitudinally on the rod. When not in use the device may be removed from the rod if desired to facilitate the packing or storing of the same.

I claim:

1. The combination with a cleaning rod for the bore of gun barrels, of a member longitudinally adjustable on said rod to constitute a stop engageable with one end of the barrel to prevent the projection of said rod from the opposite end of the barrel, said member comprising a substantially split ring-shaped handle, parallel extensions from

the end of said handle, and means for effecting a clamping engagement of said extensions with the cleaning rod.

2. The combination with a cleaning rod for the bore of gun barrels, of a member longitudinally adjustable on said rod to constitute a stop engageable with one end of the barrel to prevent the projection of said rod from the opposite end of the barrel, said member comprising a substantially split ring-shaped handle, parallel extensions from the end of said handle, said extensions formed with complementary longitudinal grooves in their confronting faces, and means extending through said extensions for effecting a clamping engagement of the grooved portions thereof with the cleaning rod.

3. The combination with a cleaning rod for the bore of gun barrels, of a member longitudinally adjustable on said rod to constitute a stop engageable with one end of the barrel to prevent the projection of said rod from the opposite end of the barrel, said member comprising a substantially split ring-shaped handle, parallel extensions from the end of said handle, said extensions formed with complementary longitudinal grooves in their confronting faces, and means extending through said extensions for effecting a clamping engagement of the grooved portions thereof with the cleaning rod, the said split ring-shaped handle being angularly disposed with respect to the extensions to permit the device to lie wholly within the ends of the cleaning rod.

4. As a new article of manufacture, a combined handle and stop for gun barrel cleaning rods, comprising a member constructed from a single length of flat material having its central portion bent to provide a substantially tubular split ring-shaped handle and its end portions projecting outwardly therefrom to provide parallel extensions from the ends of the handle, said extensions formed with complementary longitudinal grooves in their confronting faces to receive within the grooved portions the gun barrel cleaning rod, laterally projecting aligned apertured ears on the extensions, and means extending through said ears for effecting a clamping engagement of the grooved portions of the extension with the cleaning rod.

EDWARD HENRY WILLIAMS.