

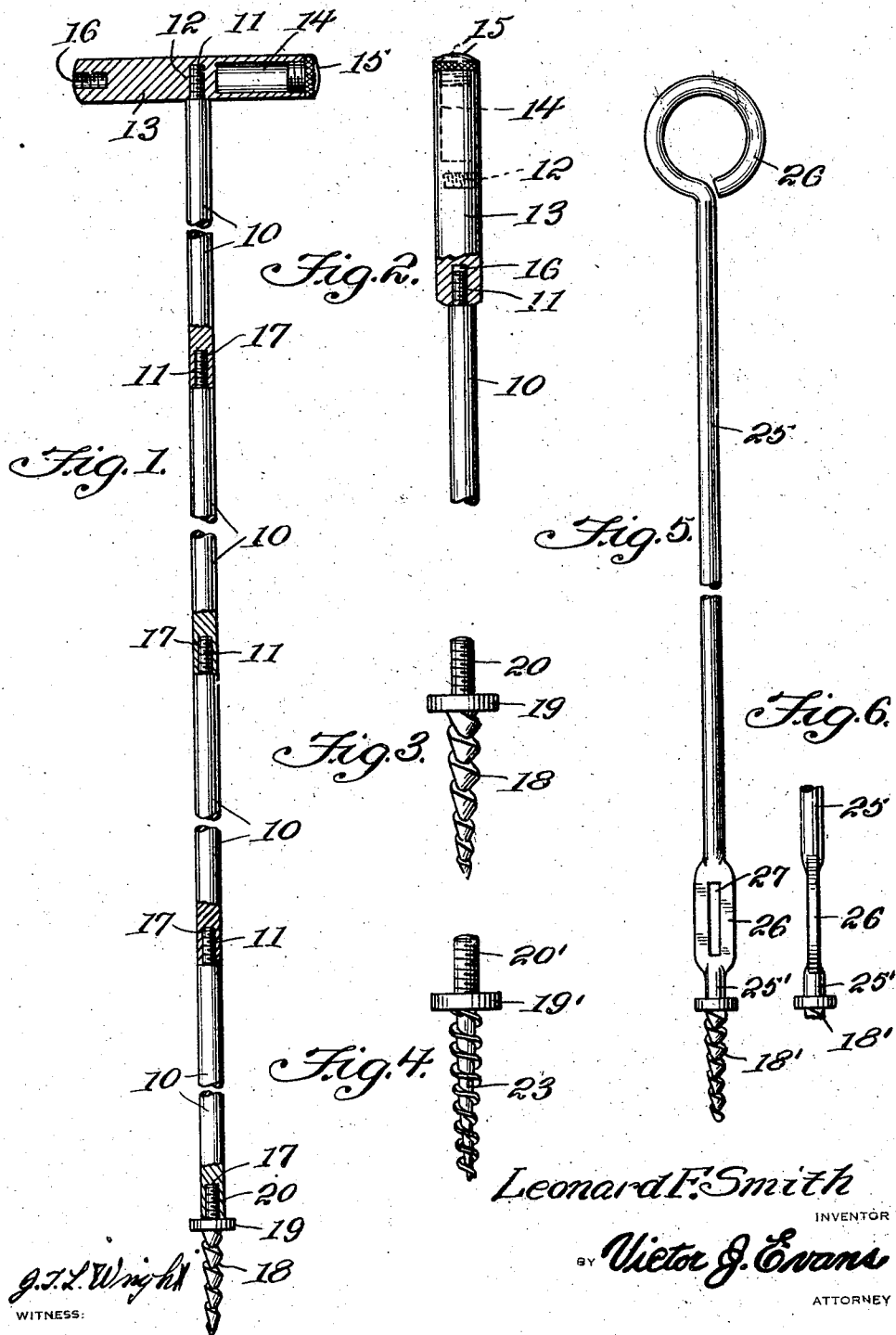
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CLEANING ROD AND EXTRACTING DEVICE

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CLEANING ROD AND EXTRACTING DEVICE.

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The object of this invention is to provide a rod carrying on the end thereof a left-hand screw for engaging a cleaning element which may have become jammed in the barrel of a rifle.

A further object is to provide a tool which may be employed for the purpose indicated, without danger of damaging the rifling of the barrel, the screw maintaining its position in the center of the bore and spaced from the walls thereof, and the left-hand screw permitting of the withdrawal of a cleaning rag in the direction of the rifling, the spirals of which extend in a right-hand direction.

A further object is to provide a jointed rod connected by threaded means, that is the sections of the rod being so connected,—the threaded means also extending in a left-hand direction.

With the foregoing and other objects in view, the invention consists in the novel construction and arrangement of elements described, illustrated and claimed, it being understood that modifications may be made within the scope of the claims, without departing from the spirit of the invention.

In the drawings forming part of this application,

Figure 1 shows the device in elevation, with parts broken away, and parts appearing in vertical section.

Figure 2 is a detail view showing the handle portion, connected with one of the sections of the rod, in such manner that the handle will be in alinement with the longitudinal axis of said rod section.

Figure 3 is a detail view, in elevation, showing the left-hand screw to be positioned at the end of the rod.

Figure 4 is a similar view showing a modified form of screw, the spirals of which also extend in a left-hand direction.

Figure 5 is a view in elevation, of a modification, in which the rod per se is to be regarded as being formed in one piece, with a slotted end portion.

Figure 6 is a detail in elevation, looking from the right or from the left in Figure 5, and showing the flattened portion of the rod thru which the slot extends.

In the form illustrated in Figure 1, the sections of the rod are designated 10, and are of any suitable length, depending upon the number to be provided in forming the complete rod. The upper end of one section, and usually the upper end of each section,

will be provided with a reduced portion 11, having a left-hand thread for engagement with a correspondingly threaded bore 12 in the handle 13.

In Figure 2 handle 13 is mounted on the rod in alinement with the main axis of the rod, and cap 16 is provided with a threaded bore, for this purpose. The handle mounted in Figure 1 affords greater purchase, when needed.

This handle 13 may be provided with a chamber 14 for the reception of cleaning elements, or for use in any manner desired. The chamber is closed by a threaded cap 15, and the opposite end of the handle may also be provided with a cap, such as 16, as stated, or at least with a threaded bore.

Each section 10 may be provided with a reduced threaded portion 11, the thread being of the left-hand type, as already explained, and this thread is adapted to engagement with a socket 17 provided in the end of the adjacent rod section 10.

The screw to be mounted at the extreme end of the rod, and adapted for engagement with the rag assumed to have become jammed in the barrel of the gun, is designated 18, this screw being of the left-hand type, and preferably having a pitch and taper of about the proportions illustrated.

The shank of screw 18 is provided with a flange 19 adapted to space the screw 18 from the walls of the bore, and thereby prevent damage to the rifling. Formed with screw 18 and flange 19 is a threaded shank 20, also of the left-hand type, and adapted for engagement with the socket 17 of the section of the rod constituting the lower part thereof.

The slight modification in Figure 4 involves only a difference in the formation of the spiral, the screw as a whole being designated 23, and a flange 19' and threaded shank 20' being provided, for the purpose indicated in connection with the previous form.

In Figures 5 and 6, I have shown a further modification in which a single rod 25 has its upper end portion formed into a ring-like member 26, constituting a handle, the opposite portion of rod 25 being formed as a screw 18', or having a screw detachably connected with the shank portion 25'.

Adjacent to portion 25' of the rod is a flattened portion 26 provided with a longitudinal slot 27, for the insertion of a rag,

not shown, but frequently used in cleaning gun barrels.

In either form of the device, the cleaning operation is performed in a well-known manner, and if the cleaning element or rag becomes jammed in the barrel, the device herein disclosed provides effective means for the removal of the rag without injury to the rifling, and with little or no delay. If a left-hand screw is employed, in the manner indicated, the screw is merely advanced in the jammed cleaning element, by rotation in the required direction, and by continuing the rotation, the cleaning element will be withdrawn in the direction of the usual right-hand rifling of the barrel.

Having thus described the invention, what I claim is:

1. In a device of the class described, a

rod and a screw extending from one end thereof, the longitudinal axis of the screw being in alinement with the longitudinal axis of the rod and said rod carrying a hand operating element, socketed for connection with the rod in various angular positions.

2. In a device of the class described, a rod having a slot extending transversely thereof, near one end, for the insertion of a cleaning element, a screw projecting from said end of the rod, and a handle portion carried by the opposite end of the rod, the handle portion having sockets therein permitting it to be shifted from a position in alinement with the rod to a position at an angle therewith.

In testimony whereof I affix my signature.

LEONARD FRANCIS SMITH.