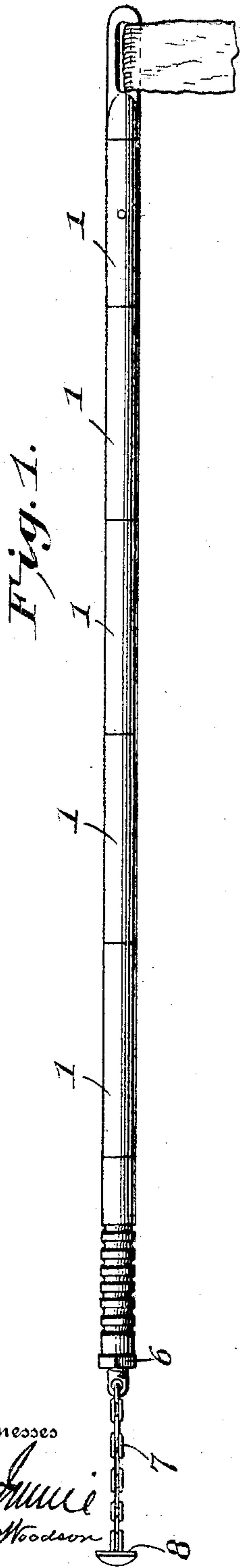


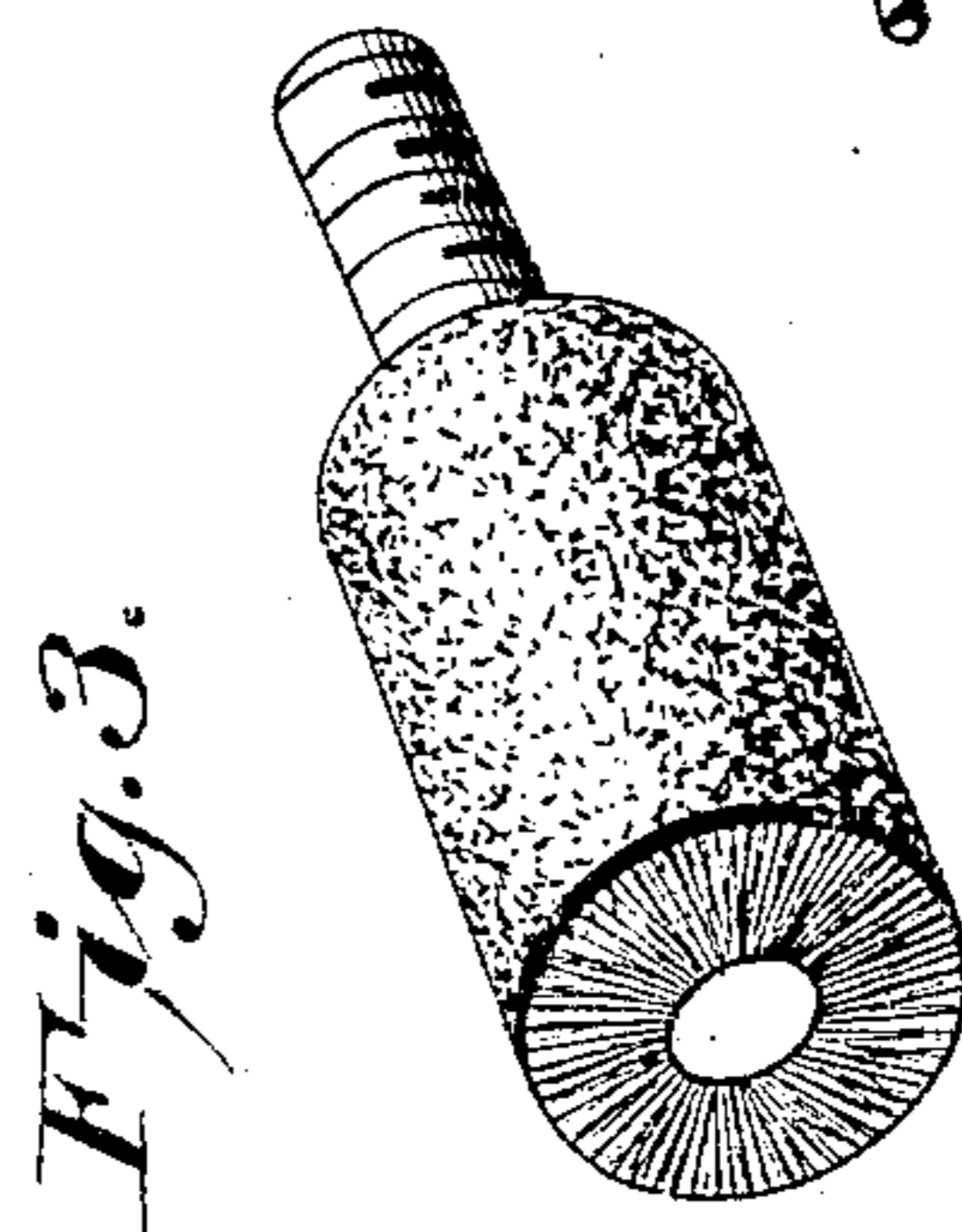
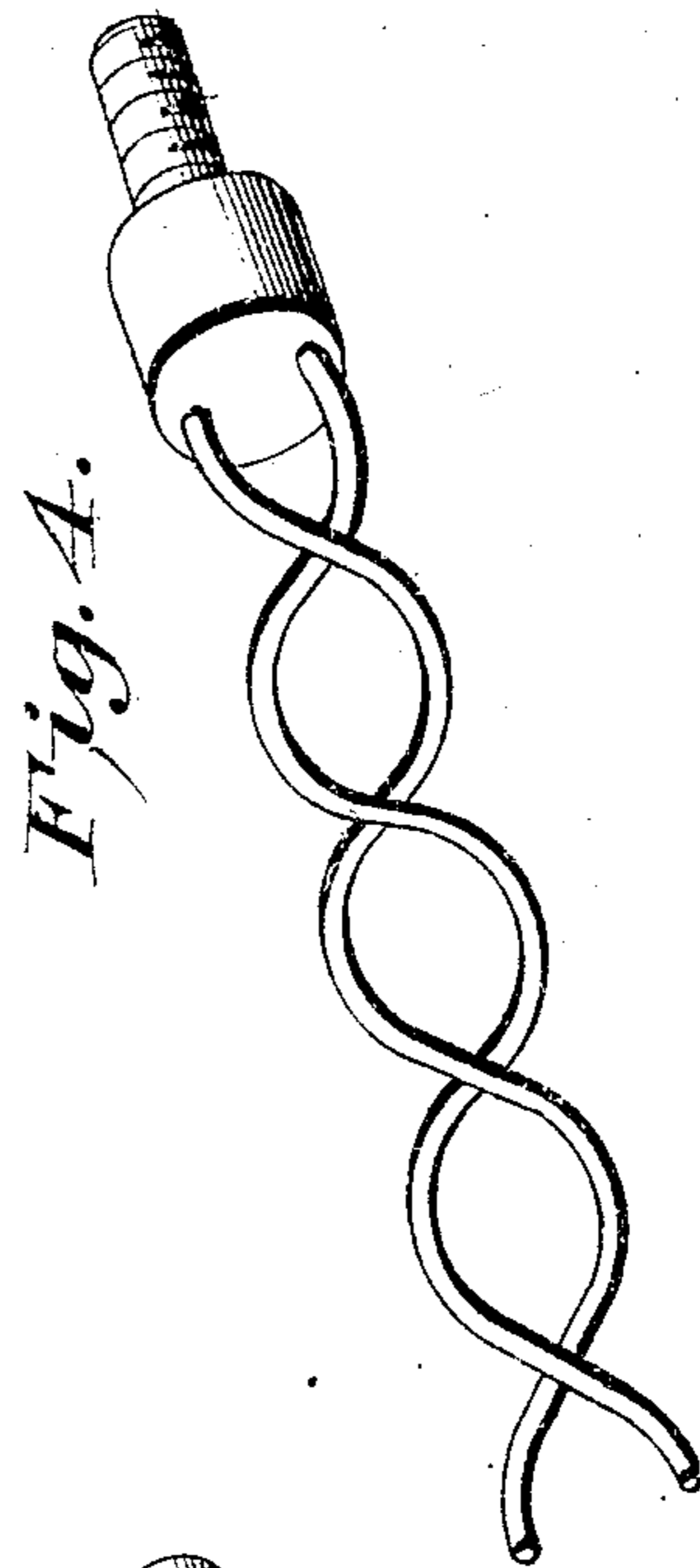
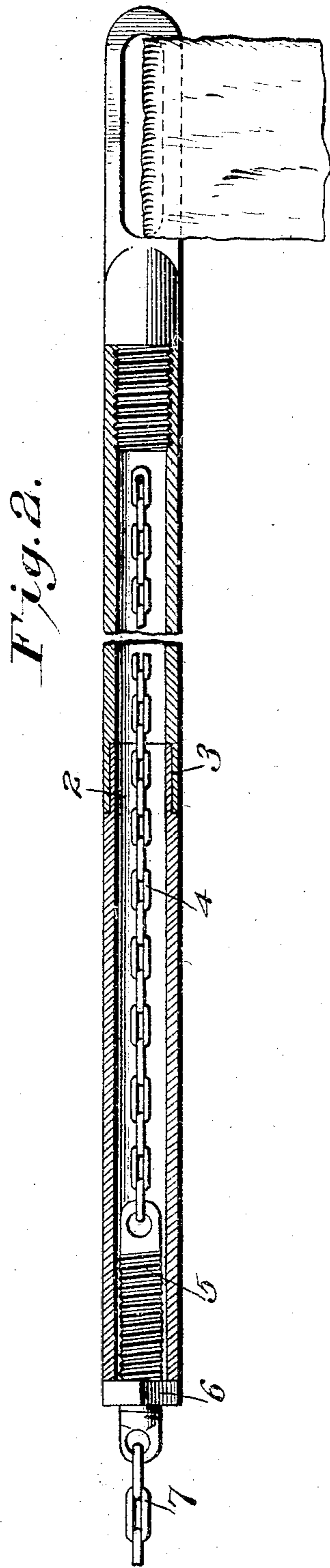
No. 883,985.

PATENTED APR. 7, 1908.

H. SUVA.
CLEANER ROD FOR FIREARMS.
APPLICATION FILED MAY 8, 1907.



Witnesses
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UNITED STATES PATENT OFFICE.

HEMMING SUVA, OF INVERMAY, SASKATCHEWAN, CANADA.

CLEANER-ROD FOR FIREARMS.

No. 883,985.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed May 8, 1907. Serial No. 372,473.

To all whom it may concern:

Be it known that I, HEMMING SUVA, subject of the King of England, residing at Invermay, Province of Saskatchewan and Dominion of Canada, have invented certain new and useful Improvements in Cleaner-Rods for Firearms, of which the following is a specification.

Small fire arms, such as rifles and shot-guns require the bore of the barrel to be kept perfectly clean, smooth and oiled, the latter preventing dampness affecting the walls of the barrel when the gun is laid aside and not used for some length of time. The cleaning of the barrel is effected through the instrumentality of a rod to one end of which is attached a brush, swab or like appliance. It is not always convenient to carry or have at hand a rod for this purpose, and particularly is this the case on hunting trips.

The purpose of the present invention is the provision of a sectional rod of novel formation which may be conveniently carried in the pocket, bag or otherwise stowed away so as not to occupy any appreciable space as compared with the length of the usual rod.

The invention consists of a number of tubular sections connected at their ends by slip joints, a flexible core piece extended through the sections to hold them in fixed relation, and means for subjecting said core piece to linear tension, whereby the several sections are held firmly together with the result that a stiff rod is obtained.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still the preferred embodiment is shown in the accompanying drawings, in which:

Figure 1 is a side view of a cleaner rod embodying the invention. Fig. 2 is a sectional view of the rod omitting some of the sections and showing the remainder on a larger scale. Fig. 3 is a detail view of a brush. Fig. 4 is a detail view of a screw point for removing any foreign article from the bore of the gun barrel.

Corresponding and like parts are referred

to in the following description and indicated in all the views of the drawings by the same reference characters.

The cleaner rod is composed of a plurality of sections 1, the same being tubular and of any desired length to admit of the rod folding into compact form when the sections are disconnected. The sections are connected by a slip joint, one end of a section having a reduced portion 2 to snugly fit within an enlargement 3 of the bore of the adjacent section. When the sections are jointed their outer sides are flush. To prevent separation of the sections, a core piece 4 is passed therethrough and is flexible and may consist of a chain, cord or like means. The core piece 4 is connected at one end to a terminal section and is provided near its opposite end with a threaded stem 5 which is adapted to project a short distance beyond the rod after the sections are jointed, the projecting end receiving a set nut 6 by means of which the core piece is subjected to linear tension with the result that the sections are held pressed together so as to provide a rod sufficiently stout to effectively perform the desired work. A short length of chain 7 is connected with the projecting end of the threaded stem 5 and is provided at its free end with a button 8, the latter retaining the said nut and sections upon the core piece 4 when separated. When the set nut 6 is backed upon a threaded stem to clear the same, the sections may be readily pulled apart, the outer section slipping freely over the threaded stem 5 and being received upon the short length of chain or flexible connection 7. The core piece holds the sections in relative position and prevents any possible loss or displacement thereof. When the sections are separated, the rod may be easily folded into compact form either to be slipped into the pocket or placed in a bag or other convenient receptacle for game or other purpose. The core piece 4 may be attached to the terminal section opposite to the hand piece in any manner and said terminal section has a threaded opening to admit of different end pieces being adapted thereto either for brushing, swabbing or oiling the bore of the gun barrel as may be required. These end pieces shown most clearly in Figs. 2, 3 and 4 have reduced terminal portions which are externally threaded to screw into the threaded opening of said terminal section. These end pieces are made inter-

changeable to admit of any one being readily threaded to the rod in the usual way.

Having thus described the invention, what is claimed as new is:

5 1. A cleaner rod for fire arms composed of a series of tubular sections, and a flexible core piece passed through the sections, and means for subjecting said core piece to linear tension and cooperating with the sections to hold them in place when fitted together.

20 2. A cleaner rod for fire arms composed of a series of tubular sections adapted to be connected by a slip joint, a flexible core piece passed through the sections and secured at one end to a terminal section, and tensioning means applied to the opposite end portion of the core piece to press the sections together and prevent separation thereof when assembled and fitted together.

25 3. A cleaner rod for fire arms composed of a plurality of tubular sections, a flexible core piece passed through the sections and secured at one end to a terminal section, a threaded stem at or near the opposite end portion of the core piece and projecting be-

yond the adjacent terminal section when said sections are properly assembled and fitted together, and a set nut threaded upon said stem and adapted to subject the core piece to tension and to press the said sections together.

4. A cleaner rod for fire arms composed of a plurality of tubular sections adapted to be connected by a slip joint, a flexible core piece passed through the sections and attached at one end to a terminal section and provided at its opposite end with a threaded stem, a set nut threaded upon said stem to hold the sections together, a flexible connection attached to the outer end of the threaded stem, and a button at the outer end of said flexible connection to prevent the several parts becoming detached when the sections are separated.

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

HEMMING SUVA. [L. s.]

Witnesses:

MATT JOHNSON,
MATTI MIKKANEN.