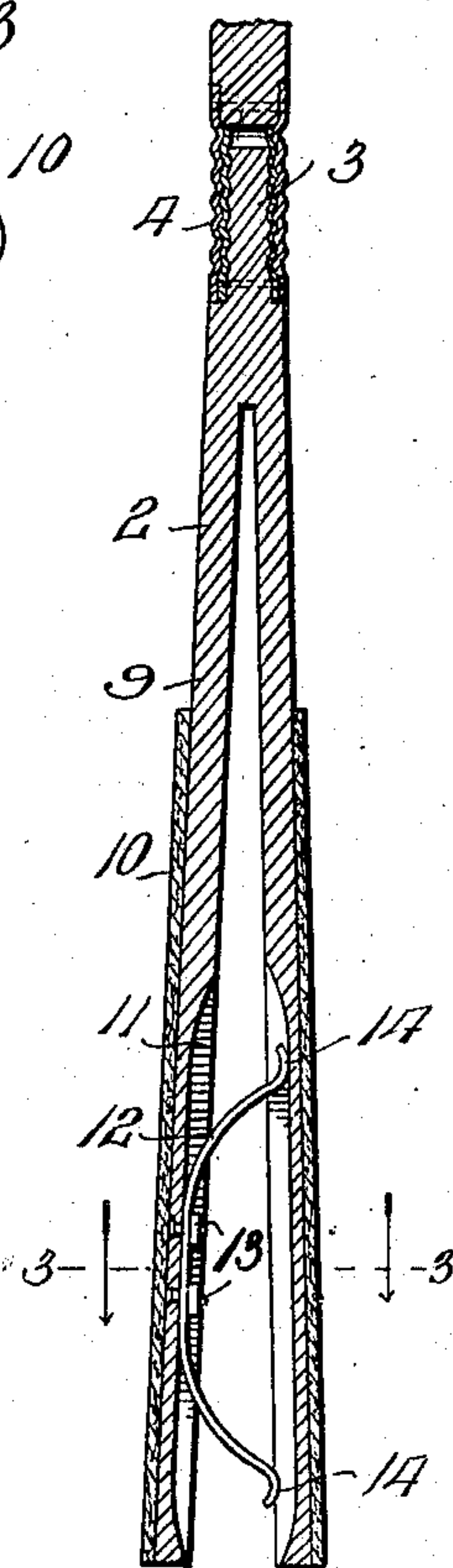
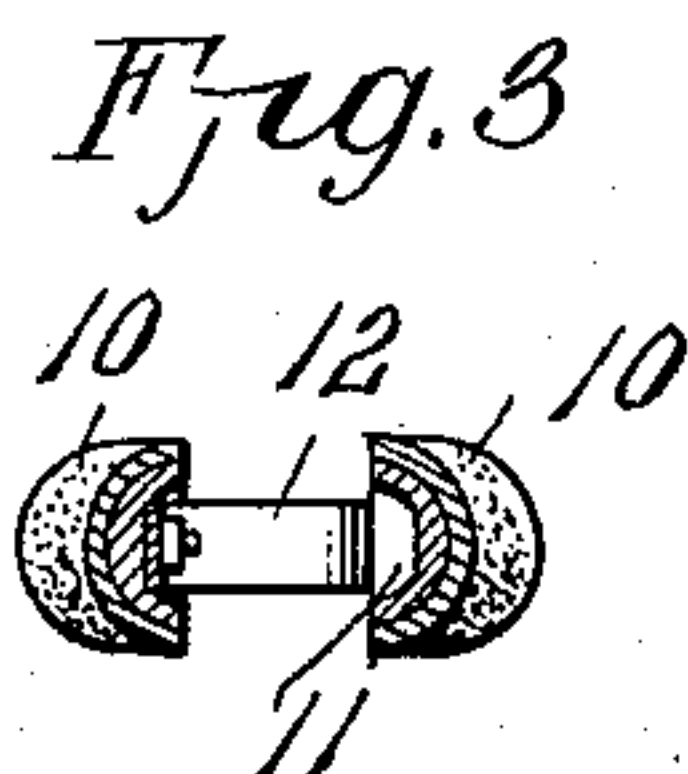
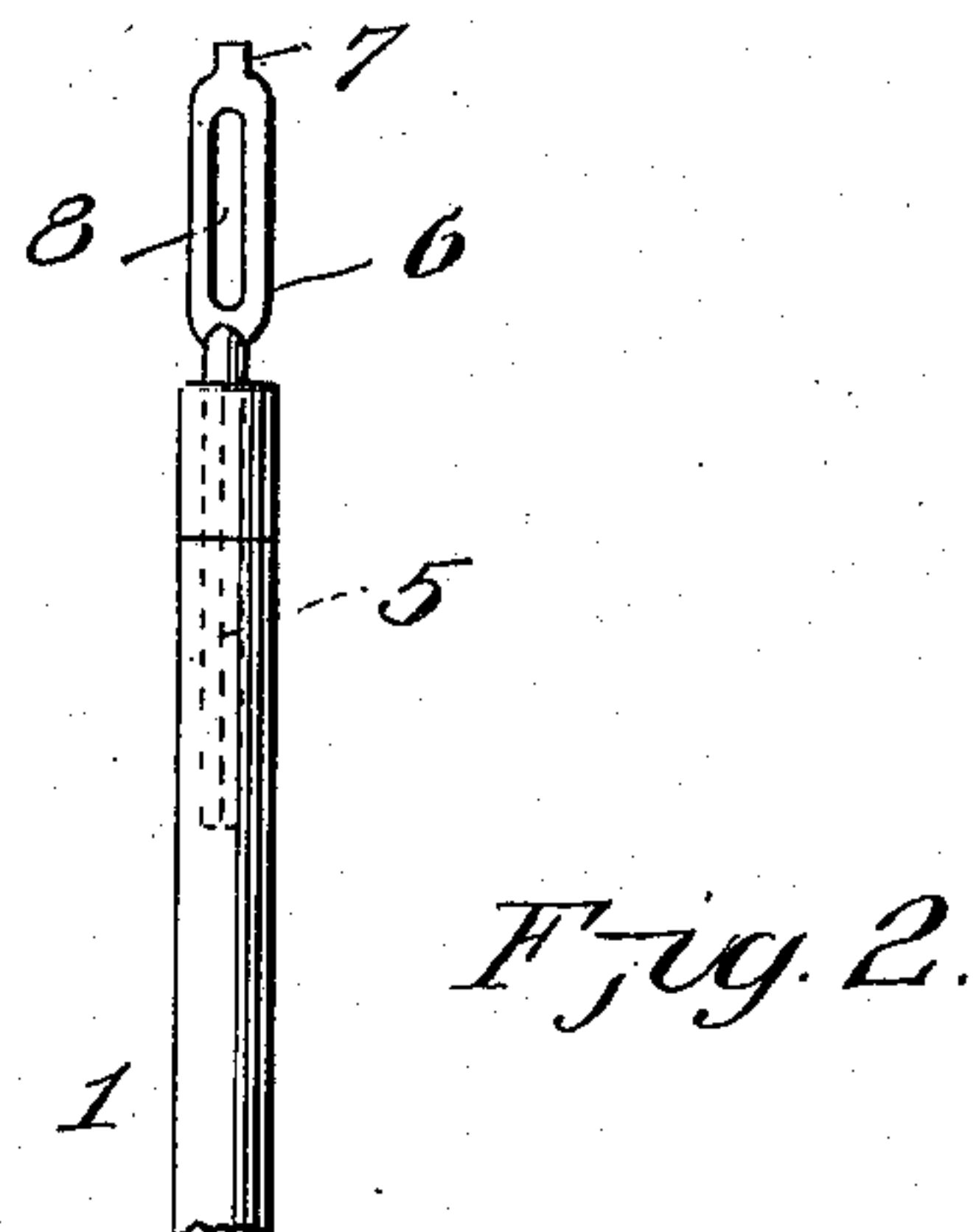
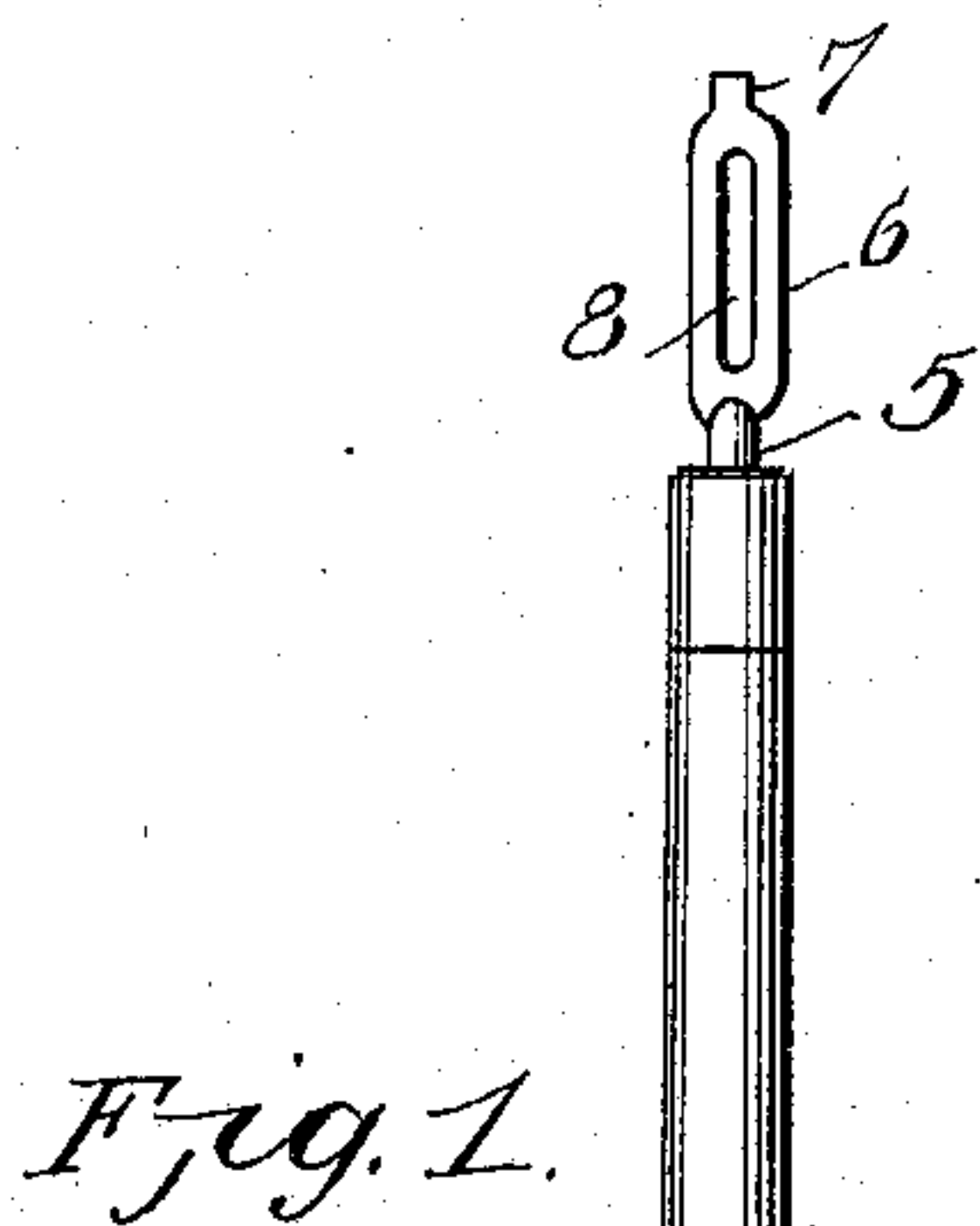


No. 867,098.

PATENTED SEPT. 24, 1907.

F. M. BIGELOW.
DEVICE FOR CLEANING GUNS AND OTHER TUBES.

APPLICATION FILED JAN. 18, 1907.



Inventor

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UNITED STATES PATENT OFFICE.

FRANK M. BIGELOW, OF ANETA, NORTH DAKOTA.

DEVICE FOR CLEANING GUNS AND OTHER TUBES.

No. 867,098.

Specification of Letters Patent.

Patented Sept. 24, 1907.

Application filed January 16, 1907. Serial No. 352,611.

To all whom it may concern:

Be it known that I, FRANK M. BIGELOW, a citizen of the United States, residing at Aneta, in the county of Nelson and State of North Dakota, have invented new and useful Improvements in Devices for Cleaning Guns and other Tubes, of which the following is a specification.

This invention relates to cleaning rods designed for use in cleaning gun barrels or other tubes, and has for its objects to provide a comparatively simple, inexpensive device of this character which in practice will thoroughly clean and polish the interior of the tube, one wherein the polishing member or head will readily conform to tubes of varying sizes or to tubes of tapered formation, and one in which the sections of the head will yield relatively, thus to obviate scratching or otherwise marring the surface under treatment.

With these and other objects in view, the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings: Figure 1 is a side elevation of a cleaning device embodying the invention. Fig. 2 is a detail view partly in section, the section being taken centrally and longitudinally through the polishing head. Fig. 3 is a detail cross section taken on the line 3—3 of Fig. 2.

Referring to the drawings, it will be seen that the device comprises as a whole a rod or shank 1 and a polishing member or head 2 having at its rear end a reduced neck 3 threaded for detachable engagement with an internally threaded socket in the form of a metal thimble 4 fixed on the adjacent end of the rod 1, the rear end of which latter is provided with a non-circular bore or socket to receive the non-circular shank 5 of a tool 6 provided with a secure engaging portion 7 and with a longitudinal slot 8 to receive a cloth or other cleaning fabric. The member or head 2, which is bifurcated as shown to form a pair of relatively movable sections or jaws 9, has applied to the outer faces of said jaws a covering 10 of felt or other pliable fabric, while arranged between the forward ends of the jaws, which are longitudinally recessed at 11 to form guideways, is a bowed spring 12 attached at a point adjacent its longitudinal center to one of the jaws by means of fastening members or bolts 13 and having its free ends bent as shown to form depending portions 14, which ride upon the inner face of the

other jaw within the guideway 11, said spring serving to maintain the jaws in spaced relation and to permit them to yield readily toward each other.

In practice, the devices may, by suitably compressing the jaws against the action of the spring 12, be introduced into a gun barrel or other tube and thereafter moved back and forth through the same, as will be readily understood, it being noted in this connection that during reciprocation of the tool the same is rotated for bringing the fabric 10 into contact with all parts of the surface to be cleaned. When in action and for the purpose of removing rust or the like from the interior of the tube, a piece of emery cloth may be applied around the member or head 2 or the fabric 10 may be moistened and coated with emery powder.

It is to be observed that in operation the jaws will move readily toward each other, thus to act yieldably on the surface to be cleaned and further that the sections 9 will assume a position to conform properly to tubes of tapered formation.

When desired, a piece of cloth or other fabric may be entered through the slot 8 for use in wiping out the tube, while the portion 7 may be brought into action for manipulating screws employed in connecting the parts of the gun mechanism.

Having thus described my invention, what I claim is:

1. A device of the class described comprising a rod, a cleaning member carried thereby and consisting of a pair of relatively movable jaws, and a bow-shaped leaf spring interposed between said jaws and rigidly secured to one of them.

2. A device of the class described comprising a rod, a cleaning member carried thereby, said member being bifurcated to provide a pair of relatively movable jaws, a pliable covering applied to the outer faces of the jaws, and a pressure spring interposed between the latter and secured to one of the jaws and movably engaging the other.

3. A device of the class described, comprising a rod, a cleaning member carried thereby and consisting of a pair of relatively movable jaws provided on their inner faces with guide grooves, and a pressure spring interposed between the jaws within said grooves.

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

FRANK M. BIGELOW.

Witnesses:

CARL E. FODNESS,
G. A. COLSON.