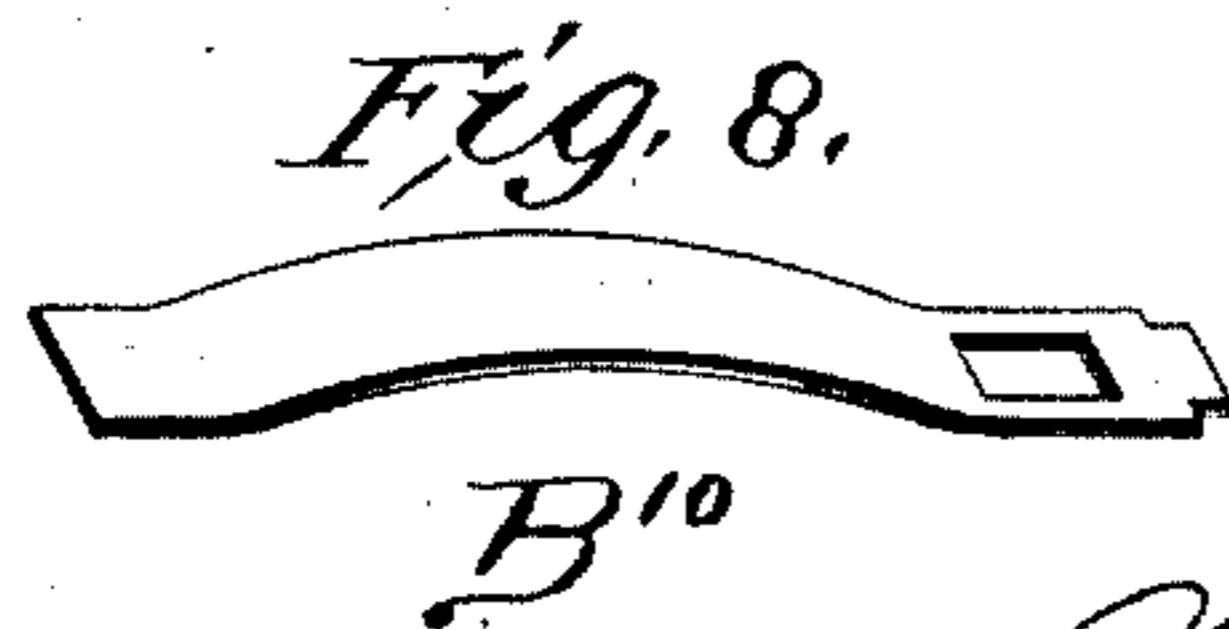
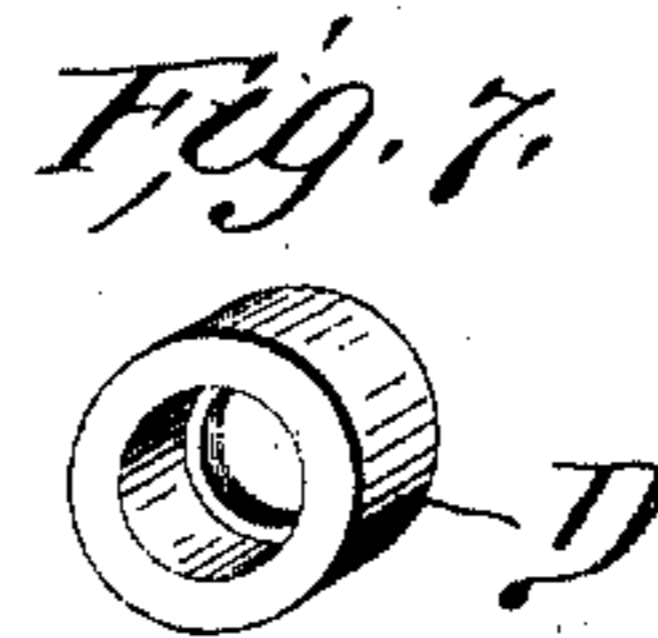
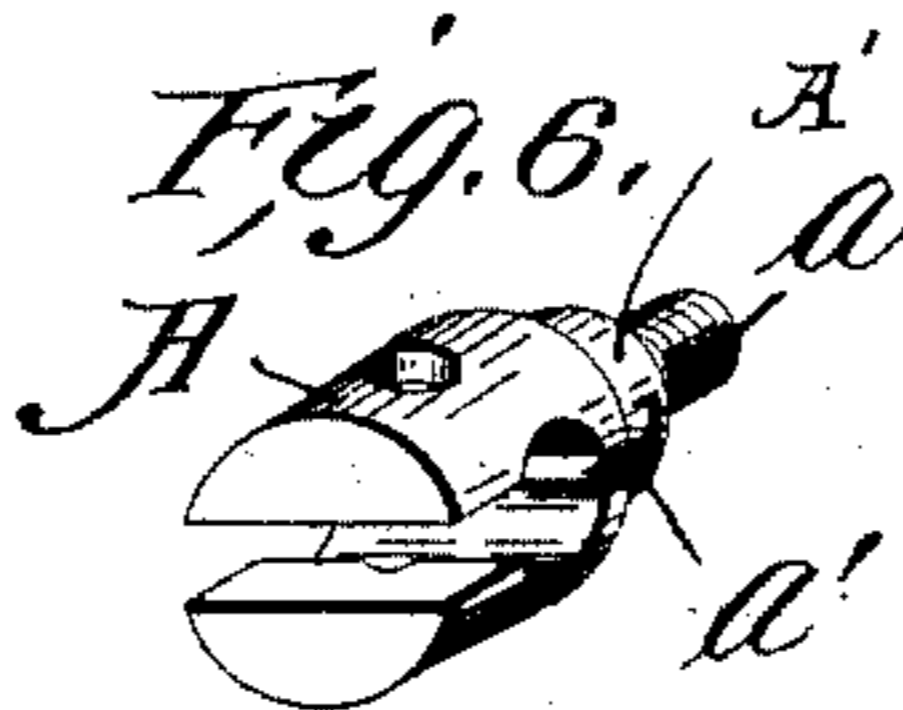
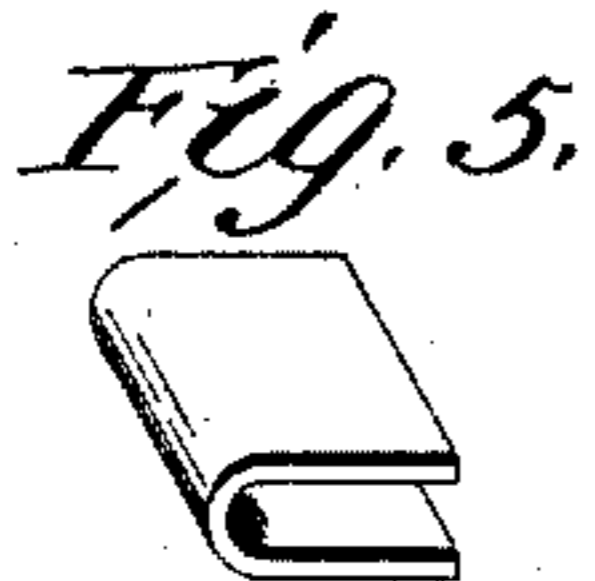
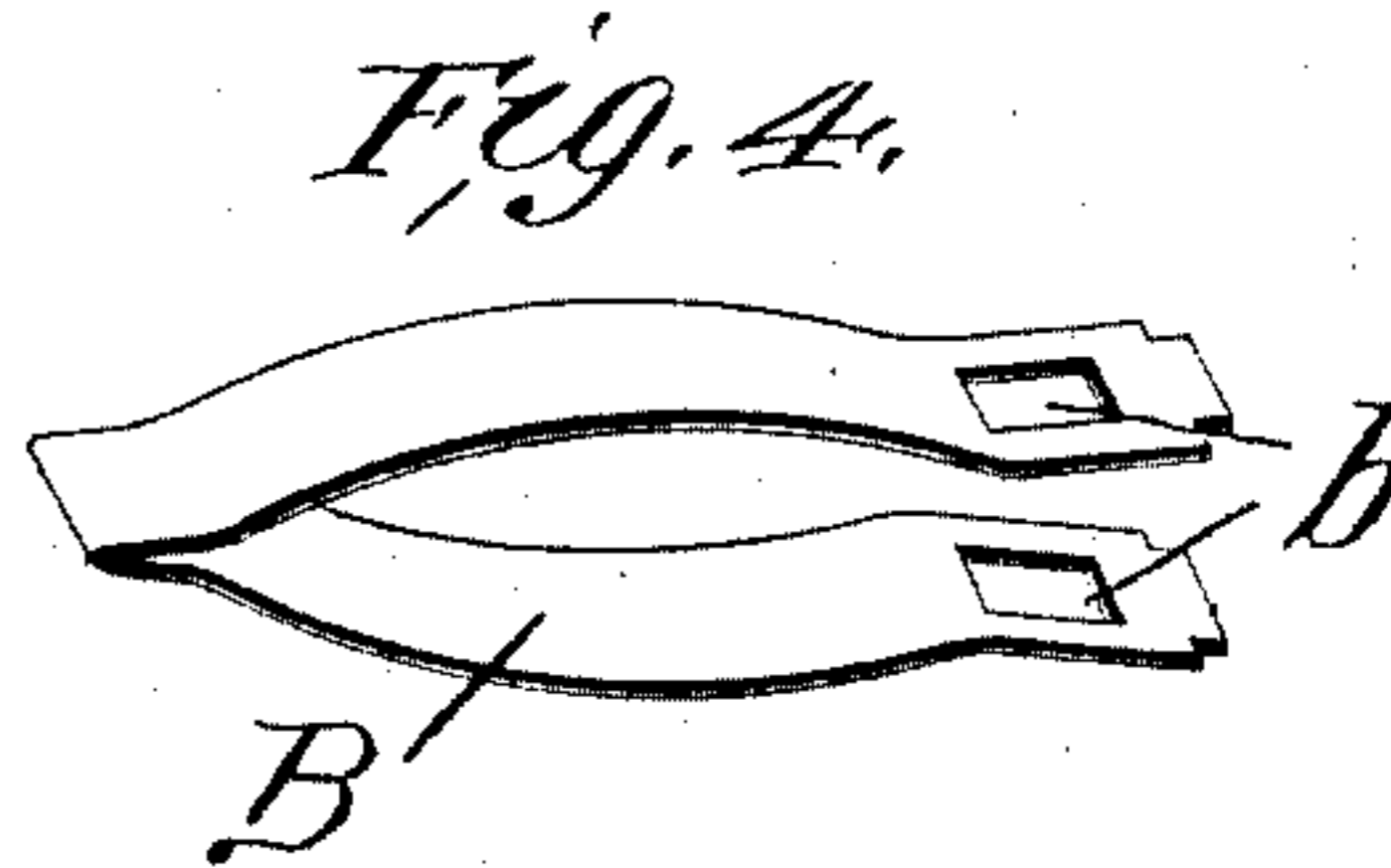
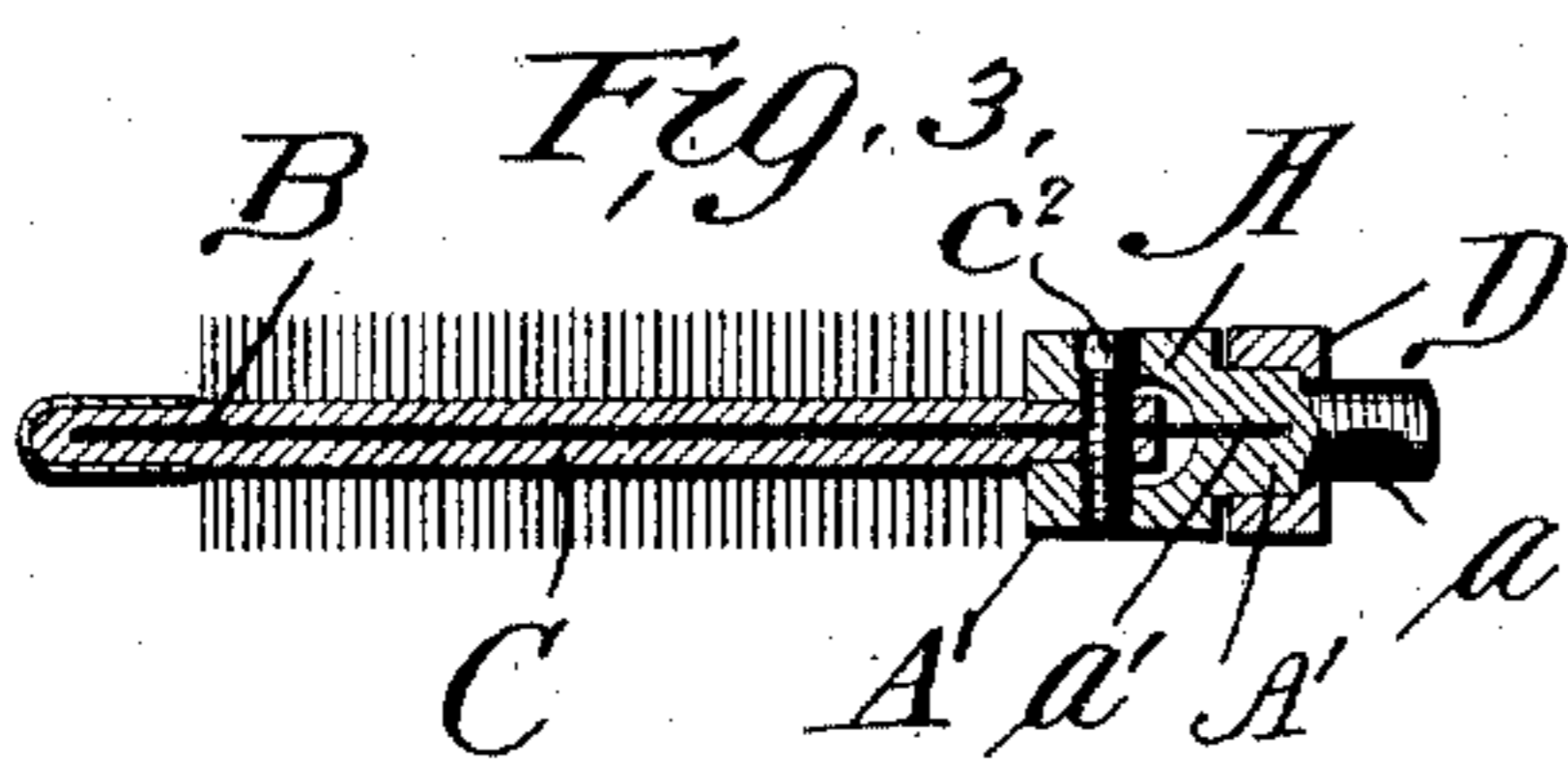
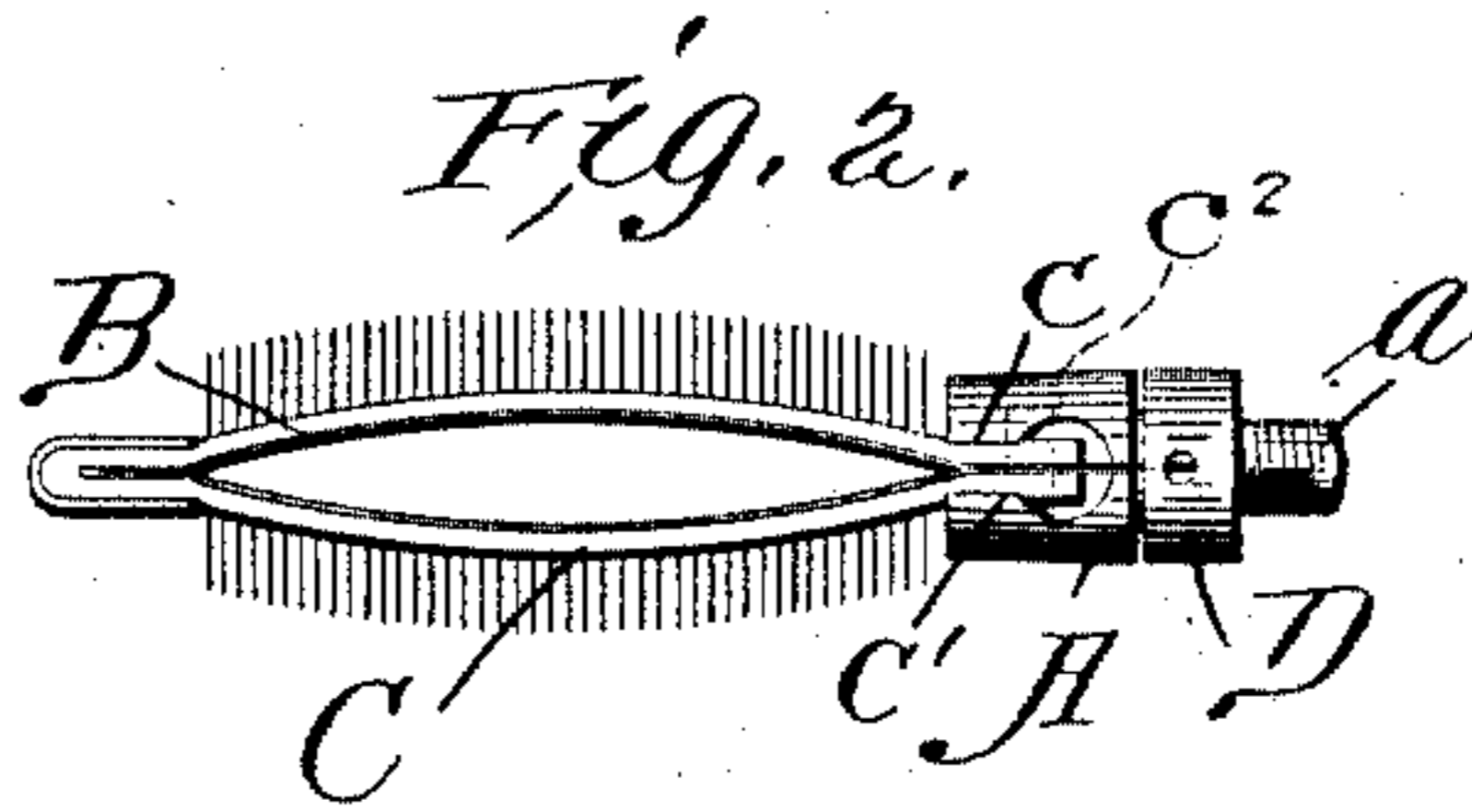
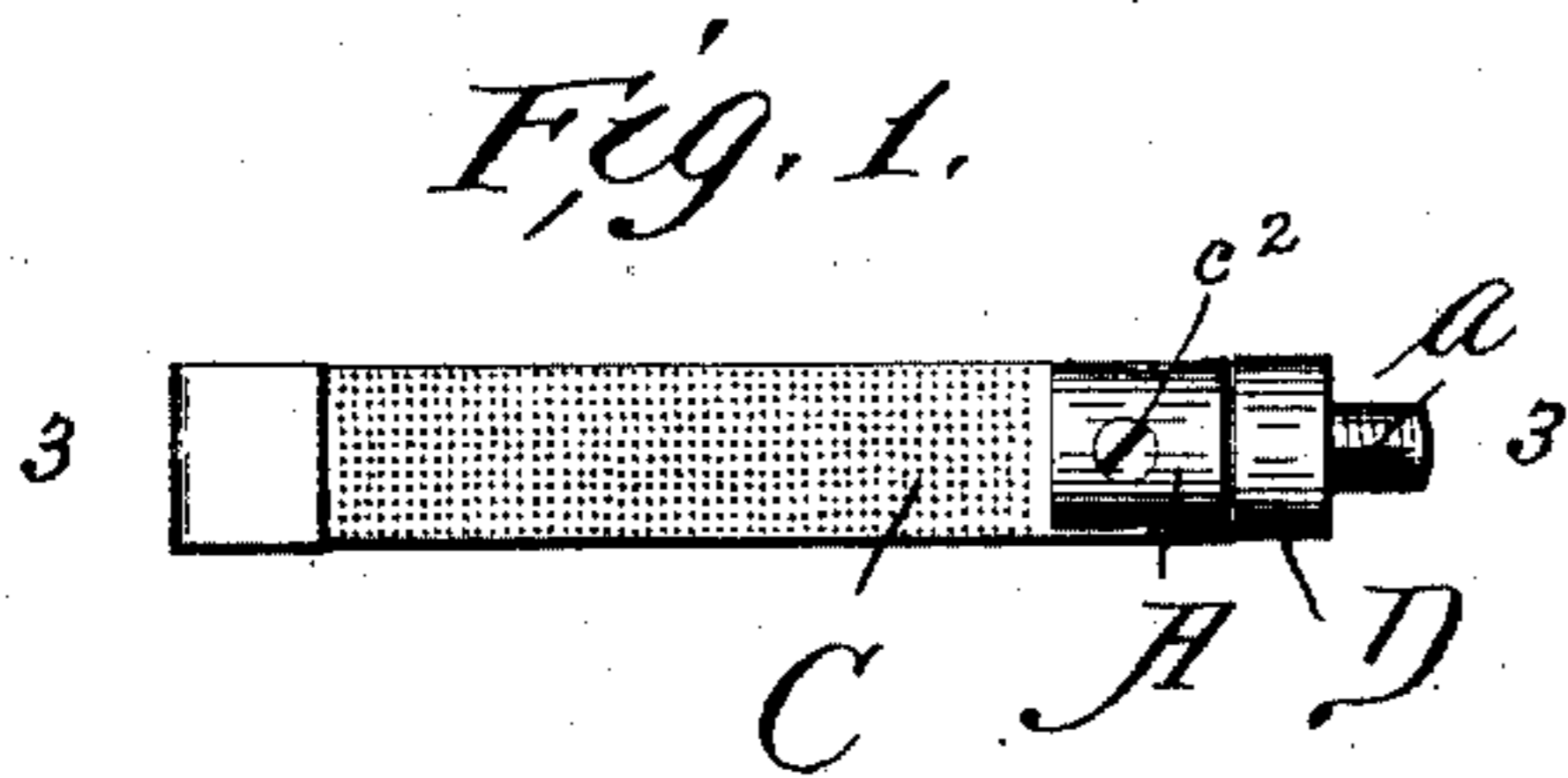


No. 864,837.

PATENTED SEPT. 3, 1907.

A. H. DURSTON.
GUN CLEANING TOOL.
APPLICATION FILED JUNE 9, 1902.



WITNESSES:

William F. Hall
Chas. J. [unclear]

INVENTOR

Alfred H. Durston
BY *Key & Parsons*
ATTORNEYS

UNITED STATES PATENT OFFICE.

ALFRED HOWLETT DURSTON, OF SYRACUSE, NEW YORK.

GUN-CLEANING TOOL.

No. 864,837.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed June 9, 1902. Serial No. 110,909.

To all whom it may concern:

Be it known that I, ALFRED HOWLETT DURSTON, of Syracuse, in the county of Onondaga and State of New York, have invented a certain new and useful Gun-Cleaning Tool, of which the following is a specification.

My invention has for its object a gun-cleaner which is particularly simple in construction and durable and effective in use, and it consists in the novel combinations and constructions hereinafter described and pointed out in the claims.

In describing the invention, reference is had to the accompanying drawings, in which like letters indicate corresponding parts in all the views.

Figures 1 and 2 are, respectively, top plan and side elevation of my gun-cleaner. Fig. 3 is a longitudinal sectional view taken on line 3—3, Fig. 1. Figs. 4, 5, 6 and 7 are isometric views of detached parts of my gun-cleaner. Fig. 8 is an isometric view of a slightly modified supporting member.

This gun-cleaner consists essentially of a main body A, supporting and abrasive members B, C, and an adjusting part D.

The main body A is provided with a reduced rear end A' having a threaded shank *a*, and is also provided with a lengthwise slot *a'* extending rearwardly from its front end and opening through the peripheral face of the reduced end A'. Said supporting members B, preferably consist of opposite substantially bow-shaped yielding parts or springs having their front ends suitably connected and their rear ends movable lengthwise in the slot *a'*, extended laterally beyond the peripheral surface of the reduced end A' and provided with elongated perforations *b*. The front ends of the supporting members B are usually formed integral with each other, as seen in Fig. 4, but said supporting members may be formed separable from each other, as shown in Fig. 8, in which B¹⁰ represents a single supporting member which is separable from the opposite supporting member, not illustrated.

The abrasive members C are of any desirable form, size and construction, being here shown as having front ends united and their opposite ends arranged between the clamps *c c'*, on opposite sides of the supporting member B. A screw *c*² serves to draw the clamps *c c'* upon the abrasive member C, said screw extending through the perforations *b*.

As best seen in Figs. 1, 2, 3, 7, the adjusting part D is journaled on the reduced end A' and is provided with a threaded inner face for engaging said threaded shank *a*. The adjusting part D, engages the laterally projecting portions of the rear ends of the supporting members B, and when the clamps *c c'* are slightly released by unloosening the screw *c*², and the adjusting part is turned to the right, the supporting members B B are moved lengthwise for tensioning the abrasive members C. In this construction before further adjustment can

be effected the supporting member B²⁰ must be detached from the main body A²⁰.

The construction and operation of my gun-cleaner will now be readily understood upon reference to the foregoing description and the accompanying drawings, and it will be obvious to those skilled in the art, that more or less change may be made in the construction and arrangement of the component parts thereof without departing from the spirit of my invention.

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

1. In a gun-cleaner, the combination of a main body comprising a pair of clamping jaws, a supporting member projecting forwardly from the main body and having its rear end arranged between the jaws and projecting laterally beyond the periphery of a portion of the main body, means for operating the jaws, an adjusting part journaled on the periphery of the main body and engaged with the end edges of the laterally projecting portions of the supporting member and an abrasive member mounted on the supporting member, substantially as and for the purpose described.

2. In a gun-cleaner, the combination of a main body provided with a lengthwise slot opening through the periphery thereof, a supporting member having one end movable lengthwise in the slot of the main body and extended laterally beyond the periphery of a portion of the main body, an adjusting part movable on said periphery and engaged with the laterally projecting portion of the supporting member, for moving the supporting member lengthwise, and an abrasive member mounted on the supporting member, substantially as described.

3. In a gun-cleaner, the combination of a main body having means for attaching a rod thereto, a yielding supporting member having its rear end movable lengthwise of the main body and formed with a perforation, an external adjusting part journaled on the main body and engaging the rear end of the supporting member, a screw engaged with the main body and extended through the perforation in the supporting member, and an abrasive member mounted on the supporting member, substantially as and for the purpose described.

4. In a gun-cleaner, the combination of a main body comprising a pair of clamping jaws, said main body being formed with a lengthwise slot opening through the periphery thereof, opposite substantially bow-shaped resilient supporting members having their front ends connected and their rear ends arranged between said jaws and extended in the slot, said members also extending laterally beyond the periphery of the main body, the portions of each of the supporting members between the jaws being formed with a perforation and an adjusting part journaled on the periphery of the main body and engaged with the laterally projecting portions of the supporting members for moving the supporting members lengthwise, a screw passed through the jaws and through the perforations in the supporting members, said screw being of less diameter than the perforations for permitting the lengthwise movement of the supporting members, and an abrasive member mounted on the supporting members, substantially as and for the purpose set forth.

5. In a gun-cleaner, the combination of a main body provided with a pair of clamping jaws at its front end, and being reduced at the rear of the clamping jaws and formed with a lengthwise slot extended into said reduced

portion and opening through the periphery thereof, a supporting member having its rear end arranged between the jaws and extended into the lengthwise slot, said member being movable lengthwise of the main body, and having
5 portions extending laterally beyond the periphery of said reduced portion, and an adjusting part journaled on the reduced portion of the main body and engaged with the laterally projecting portions of the supporting member, the periphery of the adjusting part being substantially
10 coincident with the periphery of the front part of the main body, a screw passed through said clamping jaws and

through the perforation in the supporting member, and an abrasive member mounted on the supporting members, substantially as and for the purpose described.

In testimony whereof, I have hereunto signed my name 15 in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 7th day of June, 1902.

ALFRED HOWLETT DURSTON.

Witnesses:

S. DAVIS,

D. LAVINE.