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BREECH PROTECTOR.

APPLICATION FILED SEPT. 3, 1904.

Patented Dec. 15, 1908.

2 SHEETS—SHEET 1.

906,876.

Fig. 1.

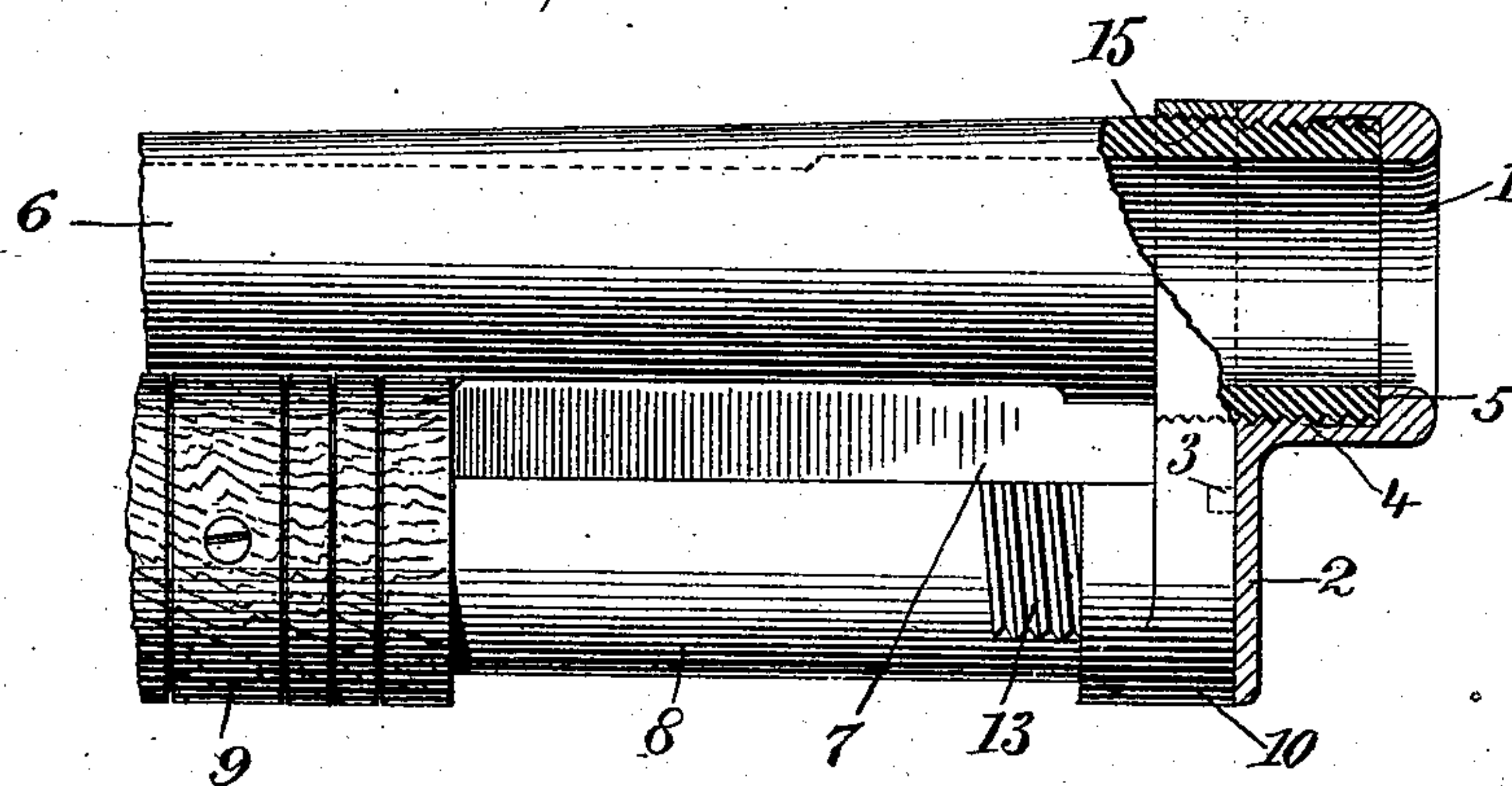


Fig. 2.

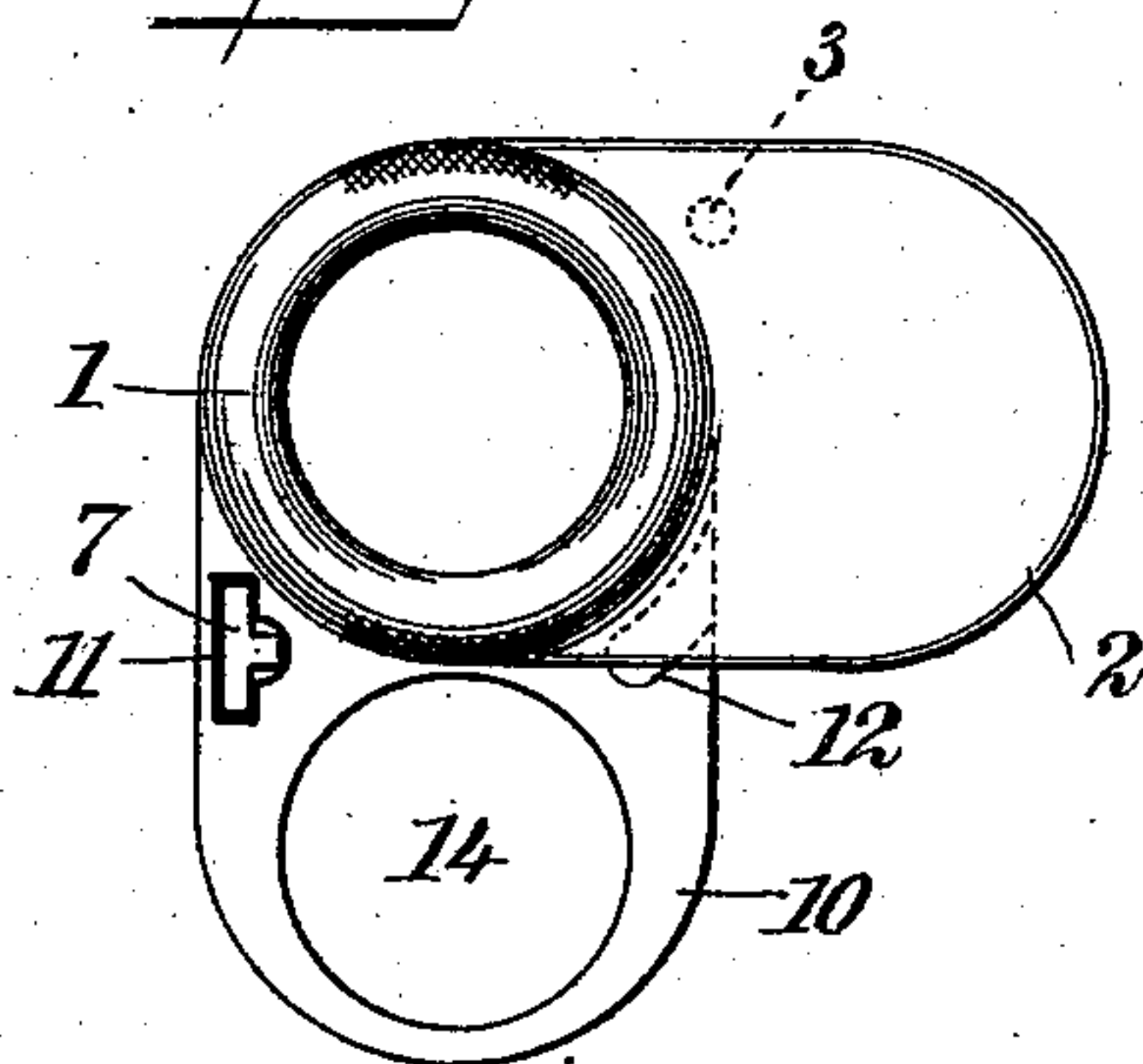


Fig. 3.

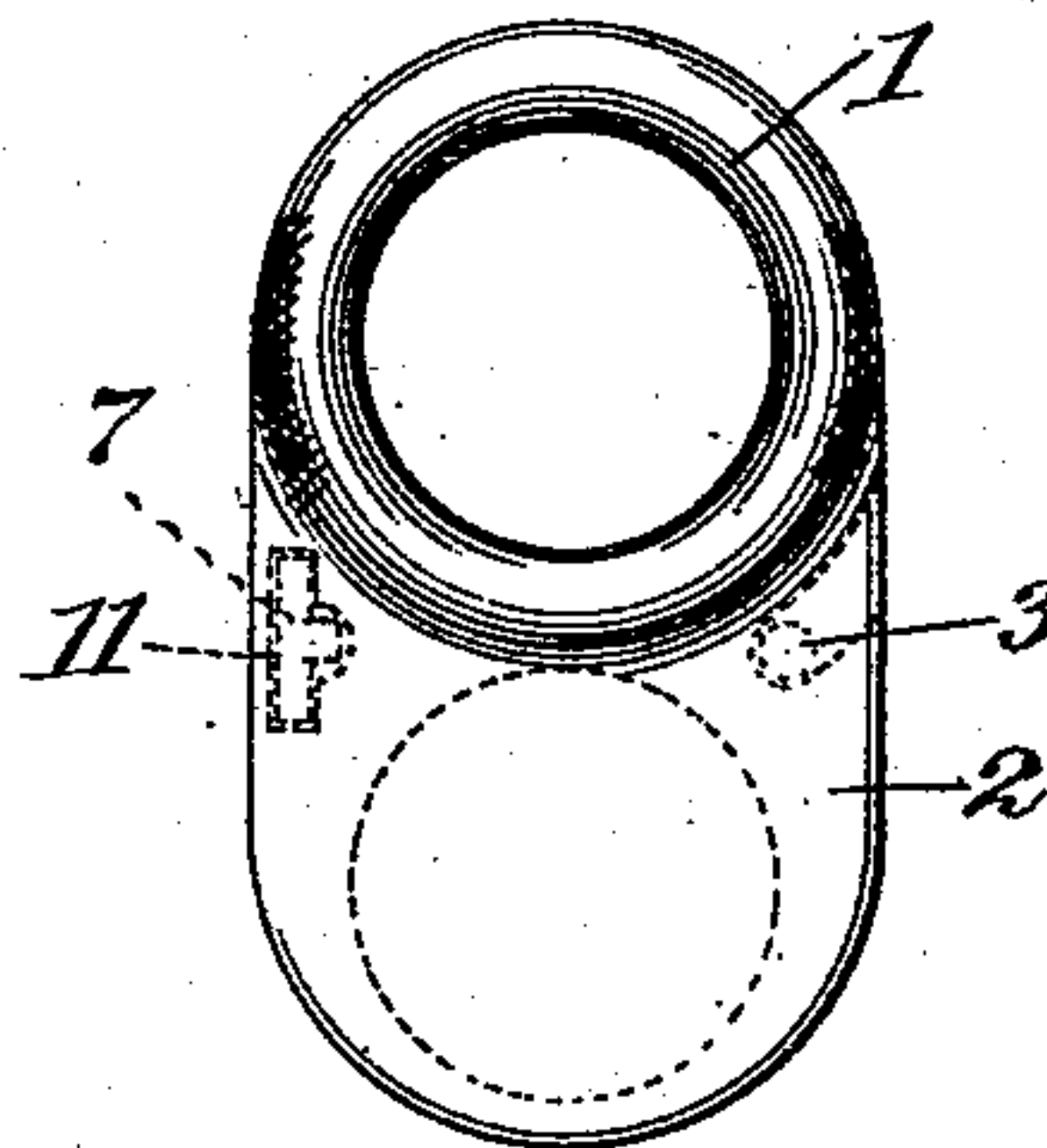
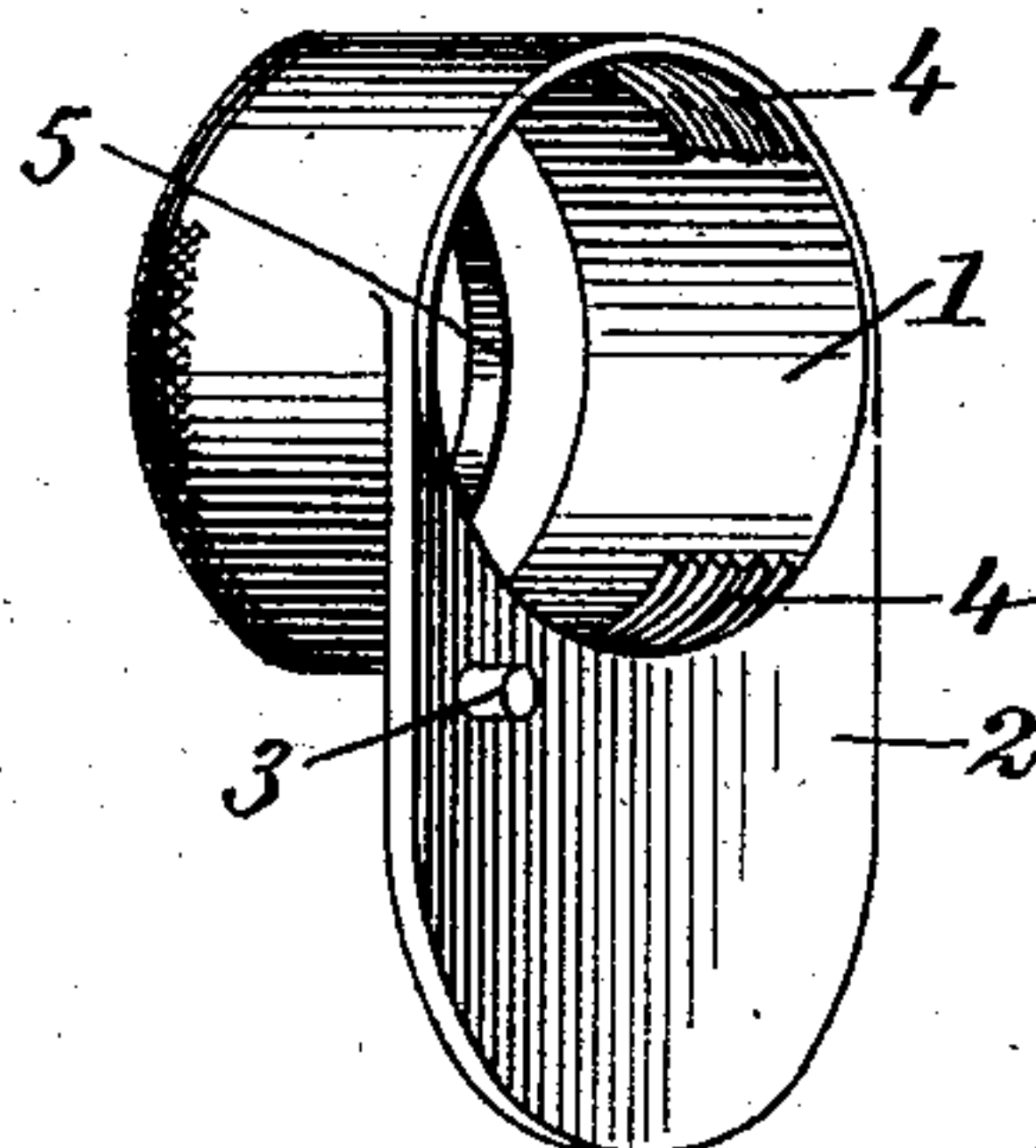


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 5.

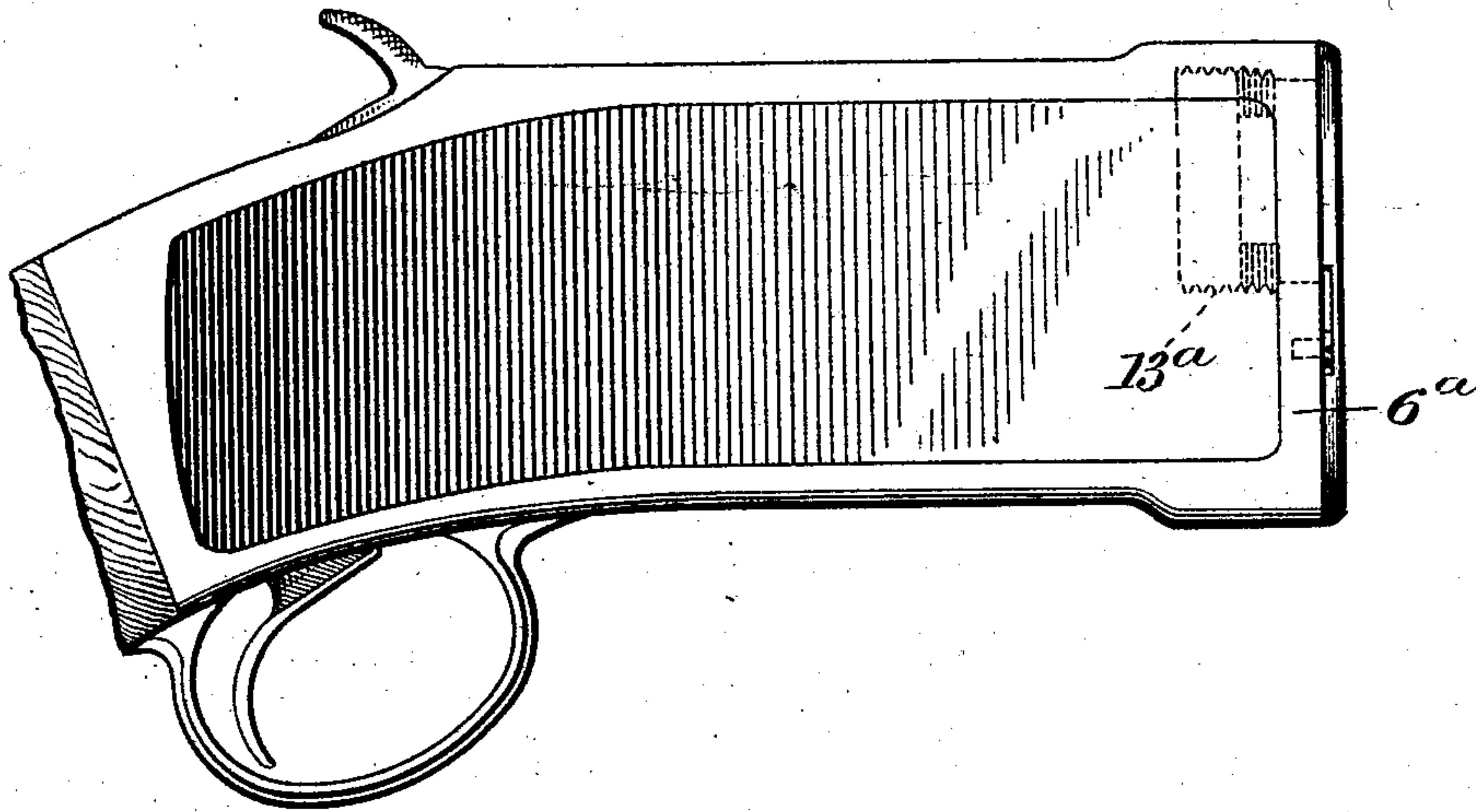


Fig. 6.

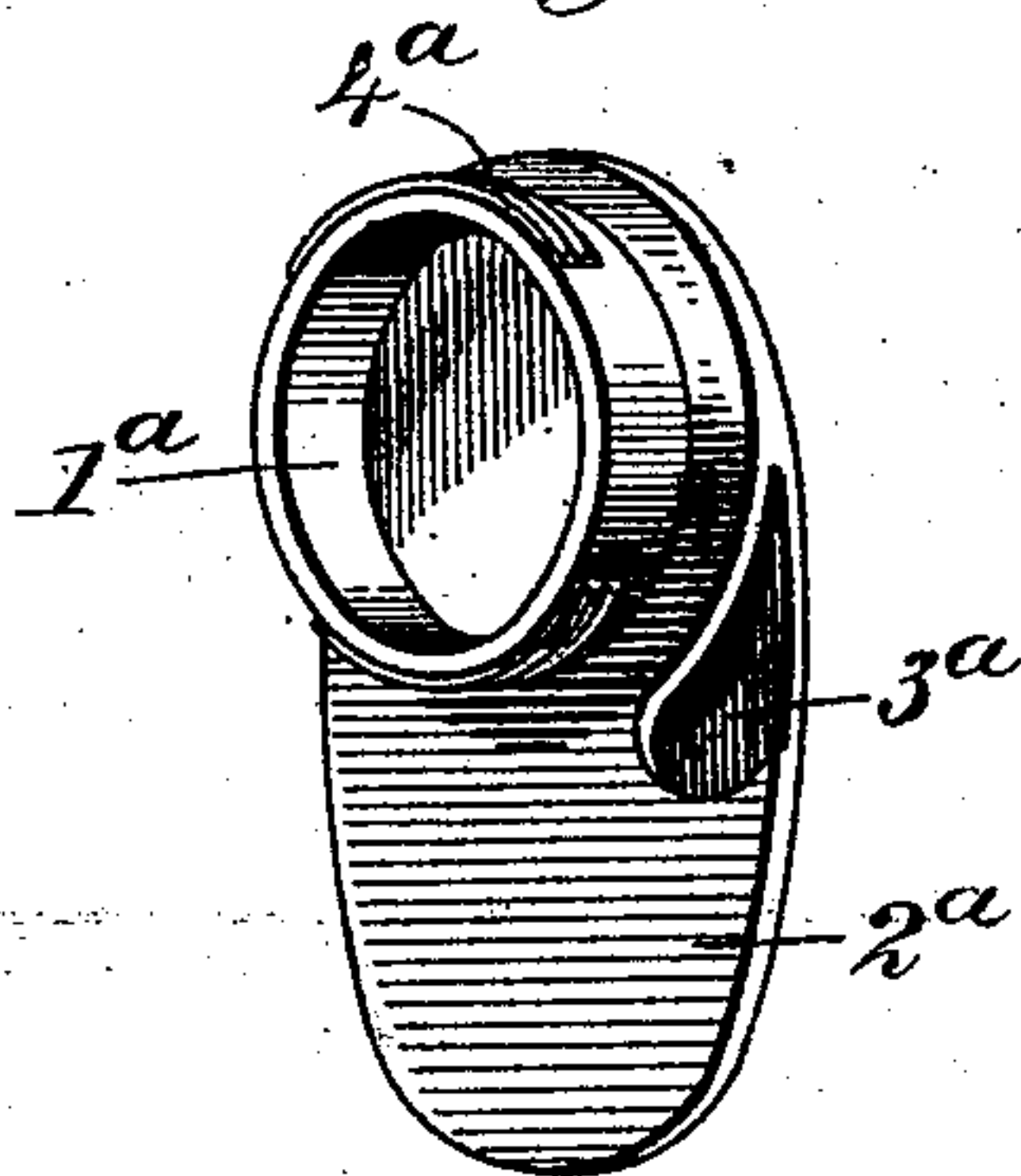
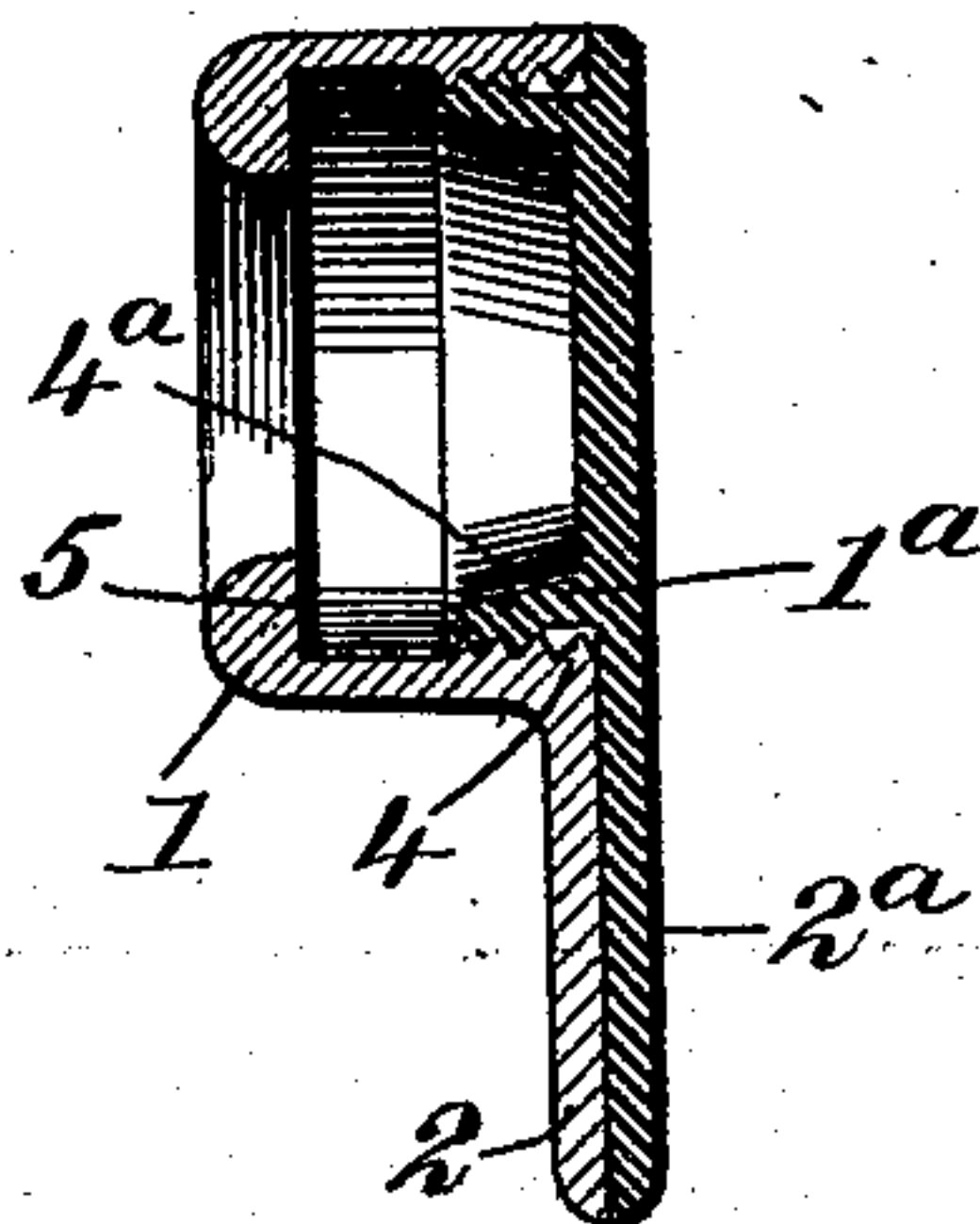


Fig. 7.



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UNITED STATES PATENT OFFICE.

EDMUND LYNE HANN, OF DENTON, TEXAS; WYLIE C. SMITH ADMINISTRATOR DE BONIS
NON OF SAID EDMUND LYNE HANN, DECEASED.

BREECH-PROTECTOR.

No. 906,876.

Specification of Letters Patent.

Patented Dec. 15, 1908.

Application filed September 3, 1904. Serial No. 223,272.

To all whom it may concern:

Be it known that I, EDMUND LYNE HANN, a citizen of the United States, and a resident of Denton, in the county of Denton and State of Texas, have invented a new and Improved Breech-Protector, of which the following is a full, clear, and exact description.

My invention relates to a breech protector for guns, and the objects are to provide means for protecting the exposed breech ends and other adjacent parts, and for protecting the hands of the person cleaning or handling the same.

With these and other objects in view, my invention comprises a protecting cover, and means for removably attaching it to the breech of the barrel or frame of a gun.

The protector may include two elements to fit the barrel and frame, these parts being preferably exact or modified duplicates of each other so that they can be fitted together when not used on the gun, in such a way as to protect each other from dirt and injury.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of the breech end of a gun barrel, with attached parts, showing in section a preferred form of my invention applied thereto; Fig. 2 is a rear view of the same, showing the protector in position to be secured to the gun barrel; Fig. 3 is a rear view of the protector secured in place; Fig. 4 is a perspective view of the protector; Fig. 5 is a side view of the end of a gun frame, showing a protector in position thereon; Fig. 6 is a perspective view of the frame protector; and Fig. 7 is a central sectional view of the barrel and frame protectors fitted together.

The particular embodiment of my invention which is illustrated in Figs. 1 to 4, comprises a hollow cylindrical body 1, having a flat lip 2 projecting at right angles therefrom. Upon the surface of this lip is a stop pin 3. On opposite sides of the inside surface of the cylinder are sections of screw threads 4, and on the interior of the outer end is a shoulder 5. 6 represents the breech

end of the gun barrel, 7 the action slide, and 8 the magazine. 9 is a slide handle which actuates the action slide, and 10 is a collar which screws on the breech end of the gun barrel and holds the different parts in place. 11 is a hole in the collar, through which the action slide is adapted to pass, and 12 is a slot in the collar for the reception of the pin 3.

The magazine is provided with interrupted threads 13, for attachment to the frame. The end of the plunger in the magazine passes through an opening 14 in the collar. Screw threads 15 are provided on the outside of the end of the barrel. These threads are usually termed interrupted threads, there being a section on each of the two opposite sides of the barrel with a smooth part between them.

My device may be applied to any kind of a single or double-barreled gun, but the shape of it and the arrangement for attaching it to the breech will have to be altered in detail to provide for attaching it to the particular make for which it is designed. In the accompanying drawings the form is made with particular reference to a "Winchester" take-down shot-gun. It will be obvious that the modifications which will have to be made in order to provide for fitting the device on other makes of guns will fall within the scope of the present invention, and that many other modifications may be made in the form shown in the drawings in the same manner.

When the barrel of a gun is dismounted from the receiver, the threads 15 and squared end of the barrel 6 are exposed in such a manner as to be easily injured. The action slide and magazine are also free to move to the rear, thus exposing them to injury. In cleaning such a gun, when force is exerted to push the cleaning rod through the barrel with one hand of the operator, the other hand is used to firmly grasp the handle of the action slide and the barrel. It is obvious that a slight release of the grip on the barrel will cause the handle to slide backward, forcing the action slide quickly in the same direction and usually causing injury to the hand holding the cleaning rod. The ramrod also is liable to come into contact with the sharp edges of the barrel and injure them as well as

itself. My invention is adapted to prevent all these accidents and injuries, and to thoroughly protect the various parts of the gun. It is applied to the barrel as follows: The dis-
 5 mounted barrel portion is held in the left hand, the protector is then slipped over the exposed end of the barrel and down to the collar 10, the interrupted screw-threads in the protector passing over the smooth spaces
 10 between the threads 15. The parts are then in the position shown by Fig. 2. The protector is then given a quarter turn so as to assume the position shown in Fig. 3, which will cause the pin 3 to enter the slot 12 and
 15 secure the device in the desired position. The reverse action is required to remove the device.

It will be apparent that when the protector is placed in the position indicated, it protects
 20 all the exposed parts, such as threads and the end of the barrel, from injury; prevents the loosening of the action slide, as the end thereof will rest against the surface of the projecting lip 2; prevents the magazine from moving
 25 to the rear for the same reason; prevents all injury to the end of the barrel on account of the shoulder 5; covers up the magazine hole in the collar; keeps dirt out of the magazine, and leaves a smooth tapering entrance for
 30 cleaning the barrel.

The portion of my invention shown in Figs. 5 and 6 is a protector for the front end of the frame. It is similar to the barrel protector and is designed to fit in it as shown in Fig. 7,
 35 when the parts are removed from the gun. It will be seen that the two parts thus cooperate with each other and when fitted together protect each other from dirt and injury. The frame protector 1^a has a flat lip
 40 2^a having a depression 3^a for a screw-head on the end of the frame. The outer surface of the main portion of this protector is provided with interrupted screw-threads 4^a fitting the interrupted threads 13^a of the frame 6^a in the
 45 manner described above with reference to the threads 4 and 13. The threads 4^a also fit the threads 4 in the same way, as is shown in Fig. 7. As there is no necessity for having a hole through the frame protector, it is preferably
 50 made solid so as to fully protect the interior of the frame from dirt and injury. The frame protector is attached to and removed from the frame and the barrel protector, in the same manner in which the latter is at-
 55 tached to the barrel and removed therefrom.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A breech protector having means for at-
 60 taching it to the breech end of a gun, and a lip projecting over the end of the magazine of the gun.

2. A cylindrical breech protector having

means for attaching it to the breech end of a gun, and a flat lip extending at right angles 65 to the cylinder.

3. A breech protector comprising a cylindrical body having means for attaching it to the end of a gun, and a flat shoulder therein fitting on the end of the barrel of the gun. 70

4. A breech protector, comprising a cylindrical body having screw-threads for attaching it to the barrel of a gun, and a lip projecting over the action slide and the magazine of the gun; said lip being provided with a 75 stop pin.

5. The combination of a gun barrel, action slide and magazine, with means for protecting the breech thereof and preventing the working of the action slide and magazine. 80

6. A gun protector comprising a portion adapted to be attached to the breech end of a gun, and a portion for protecting the adjacent parts.

7. The combination of a gun barrel, action 85 slide and magazine, with means for covering the magazine hole, protecting the breech and preventing the working of the action slide.

8. The combination of a gun barrel, action 90 slide and magazine, with a breech protector, comprising a cylindrical body having means for removably attaching it to the gun barrel, a lip on said body projecting over the magazine and action slide, a pin on said lip, and a collar mounted on the gun barrel and pro- 95 vided with a slot for the reception of said pin.

9. The combination of a barrel protector and a frame protector capable of fitting together.

10. The combination of a breech protector 100 having interrupted screw-threads for attaching it to the barrel of a gun, and a protector having interrupted screw-threads for attaching it to the frame of the gun or to the first-mentioned breech protector. 105

11. A breech protector for single-barrel take-down guns comprising a removable lip adapted to cover the magazine of the gun.

12. A breech protector and action stop for single-barrel take-down guns comprising a 110 removable lip adapted to cover the magazine and action-slide of a gun.

13. A protector for the breech of a gun, comprising a cylindrical body having means for attaching it to the breech end of the bar- 115 rel of the gun, said protector being a substantial duplicate of a portion of the frame.

14. A breech protector for fire-arms comprising a barrel case member formed to embrace the breech end of the barrel, and a 120 stock case section formed to embrace and house the firing mechanism carried by the forward end of the stock.

15. A breech protector for fire-arms including a barrel case member formed to em- 125 brace the open portion of the breech end of

the barrel, and a stock case member formed to house the firing mechanism of the stock, said case members capable of being mutually engaged when not applied to a fire-arm to
5 close their open sides and protect the interiors thereof.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

EDMUND LYNE HANN.

Witnesses:

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ALBERT E. FAY.