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F. F. BURTON.

TELESCOPE SIGHT FOR FIREARMS.

APPLICATION FILED MAR. 4, 1907.

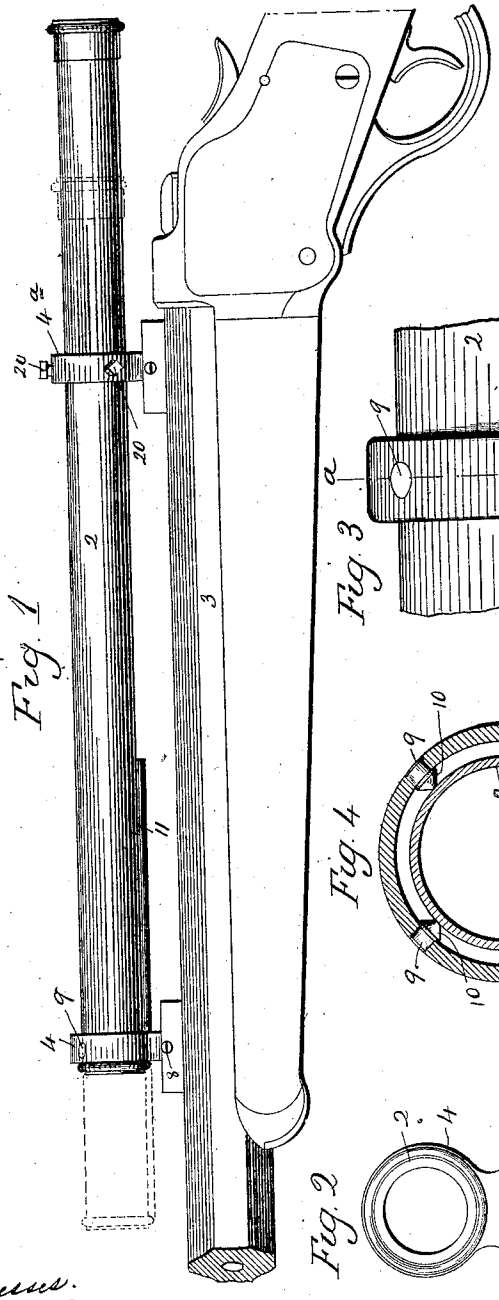


Fig. 1

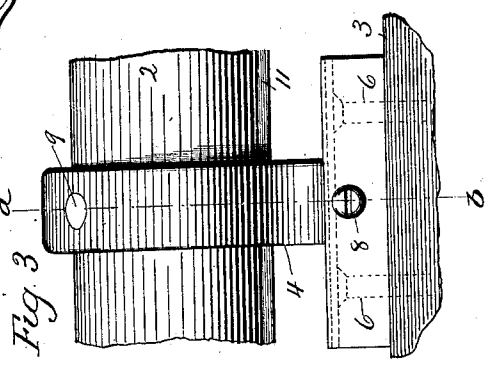


Fig. 3

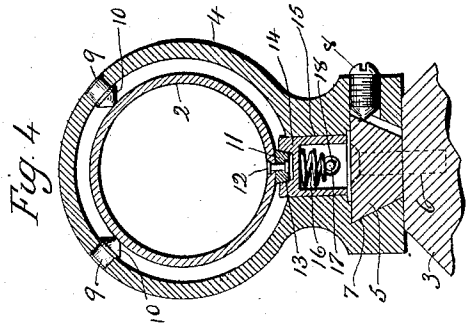


Fig. 4

Fig. 2



Fig. 5

Witnesses.
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UNITED STATES PATENT OFFICE.

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TELESCOPE-SIGHT FOR FIREARMS.

No. 870,272. Specification of Letters Patent. Patented Nov. 5, 1907.

Application filed March 4, 1907. Serial No. 360,488.

To all whom it may concern:

Be it known that I, FRANK F. BURTON, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Telescope-Sights for Firearms; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a view in side elevation of a gun provided with my improved telescope and mountings, showing the position of the telescope before the gun is fired by full lines, and after the gun is fired by broken lines. Fig. 2 a view in front elevation showing the telescope, the front mounting therefor, and the gun barrel. Fig. 3 an enlarged broken view in side elevation of the telescope and its front mounting. Fig. 4 a sectional view on the line *a*—*b* of Fig. 3. Fig. 5 a detached plan view of the plunger.

My invention relates to an improvement in telescope sights for firearms, the object being to provide simple, compact, reliable and effective means for mounting a telescope upon a firearm and holding it against rotation after the recoil so that it will always be kept in correct sighting position so far as its cross-hairs are concerned.

With these ends in view my invention consists in certain details of construction and combinations of parts as will be hereinafter described and pointed out in the claims.

In carrying out my invention as herein shown, I employ a telescope 2 of any approved construction and mount it so as to permit it to move longitudinally with respect to the gun-barrel 3 in a front mounting 4 and a rear mounting 4^a fastened to the top of the barrel in any approved manner. As my present invention concerns only the front mounting 4, I will not go into any detailed description of the rear mounting 4^a which may be of any approved construction and secured in place in any desired manner. As herein shown, the top of the barrel is furnished with a dovetail block 5 secured in place by screws 6 and entering a corresponding dovetail groove 7 in the bottom of the front mounting 4 which is furnished with a screw 8 for securing it to the said block. The telescope is supported within the mounting 4 so as to slide back and forth therein by two fixed bearing rivets 9 having their inner ends formed with conical heads 10 which present small polished surfaces or points to the surfaces of the telescope at points equally distant from the center of the upper face thereof as clearly shown in Fig. 4. Upon its lower face the telescope is furnished with a guide-rib 11 having slightly beveled side walls and secured in place by rivets 12, by brazing or in any other way, and adapted to enter a correspondingly tapered notch 13 extending from front to rear through the upper end of a hollow plunger 14 located in a chamber 15 in the base of the mounting 4 and containing a coiled spring 16 held in place by a transverse pin 17 the ends of which are extended through relatively large holes 18 in the opposite walls of the plunger and supported in the mounting as shown in Fig. 4. Under this construction the plunger is permitted to have a limited rotary movement to provide for the lateral movement of the rear end of the telescope as required for positioning the telescope to meet the various conditions of shooting, the rear end of the telescope being also adapted to be raised and lowered as well as moved laterally.

As herein shown the rear mounting 4^a of the telescope has three set screws 20 which support it and provide for its adjustment, but so far as the mounting and adjustment of the rear end of the telescope is concerned, that may be done in any approved manner, my present invention not being concerned with it as already stated.

It will be noticed by reference to Fig. 4 that the face of the rib 11 does not come in contact with the bottom of the groove 13 in the top of the plunger 14 so that the bearing between the rib and plunger is always between the sides of the rib 11 and the side walls of the notch 13 whereby the telescope at its forward end is held against lateral movement with respect to the plunger though this does not interfere with its moving back and forth under restraint of the friction developed between the rib and the plunger and between the upper face of the telescope and the bearing heads 10 of the rivets 9. This construction provides ample frictional restraint for the telescope which moves longitudinally with respect to the barrel at the time of recoil, or to speak more exactly, at the time of the recoil the gun itself moves back with respect to the telescope, the inertia of which holds it during the backward movement of the gun. After the gun has been fired the telescope has to be pulled back from the position in which it is shown in broken lines in Fig. 1, to the position in which it is shown by full lines in the same figure.

I claim:—

1. The combination with a telescope, of a mounting therefor, a spring-actuated plunger located in the said mounting and having a slot extending from front to rear, and a rib located upon the telescope and entering the said slot in which it has frictional bearing.

2. The combination with a telescope, of a mounting therefor, two fixed rivets mounted in the upper portion of the said mounting on opposite sides of the center thereof, a rib located upon the lower face of the telescope, and a spring-actuated plunger located in the lower portion of the said mounting and having a slot for the reception of the said crib.

3. The combination with a telescope, of a mounting

therefor, fixed rivets mounted in the upper portion of the said mounting on the opposite sides of the center thereof and formed upon their inner ends with conical bearing points, a rib fixed upon the lower face of the telescope and having beveled sides, and a spring-actuated plunger located in the lower portion of the said mounting and formed with a slot for the reception of the said rib and adapted to be rotated to accommodate itself to the lateral movement of the rear end of the telescope.

4. The combination with a telescope, of a mounting in which the same reciprocates, and groove-and-tongue connection between the said telescope and mounting for guiding the former as it reciprocates and preventing it from rotation, the said groove-and-tongue connection including a spring-actuated plunger.

5. The combination with a telescope, of a mounting therefor, a hollow plunger interlocked with the telescope for guiding the same, a spring located within the plunger, and a pin mounted at its ends in the mounting and passing through the plunger for supporting the spring, the plunger being formed with openings larger in diameter than the pin to permit the plunger to move up and down and to rotate.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

FRANK F. BURTON.

Witnesses:
DANIEL H. VEADER,
THOMAS C. JOHNSON.