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W. R. WEAVER

2,064,329

RIFLE TELESCOPE SIGHT

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Fig. 1

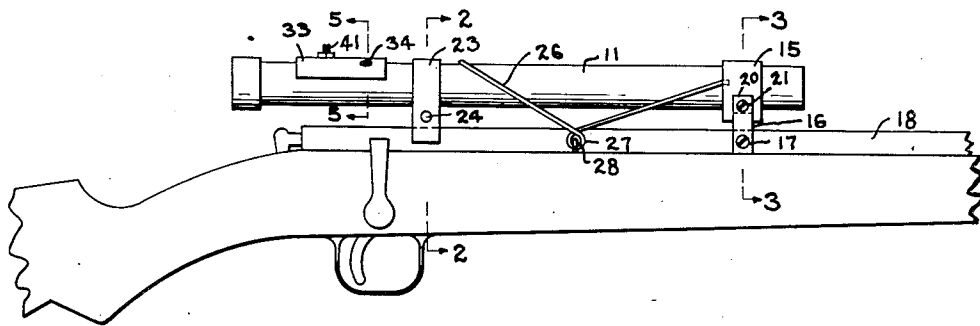


Fig. 2

Fig. 3

Fig. 5

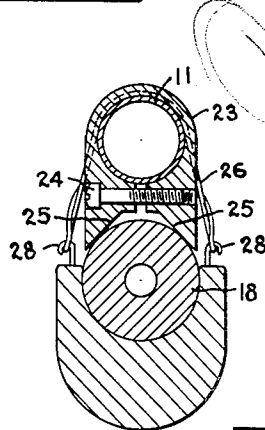
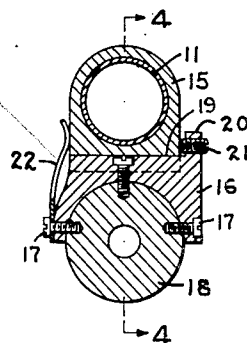
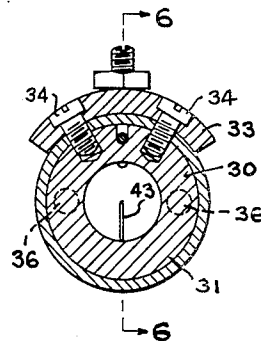


Fig. 6

Fig. 4

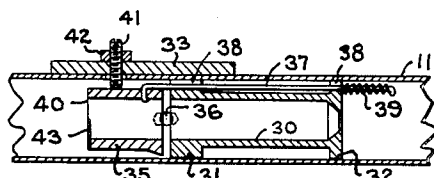
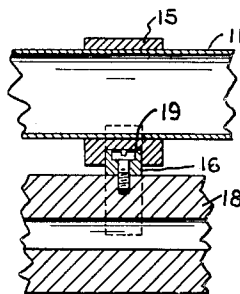
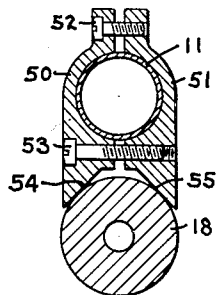
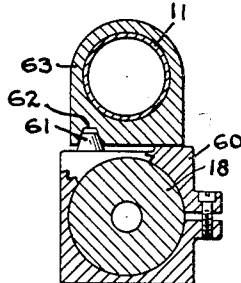


Fig. 7

Fig. 8



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RIFLE TELESCOPE SIGHT

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6 Claims. (Cl. 33—50)

My invention relates to a new and useful telescope sight for use in connection with firearms and more particularly to the means employed for mounting the telescope on the firearm and the means employed for aligning the reticule for both windage and elevation.

Many telescopes now on the market are rigidly mounted on the gun and it is extremely difficult to maintain the telescope in proper alignment due to the shocks imparted to it when the gun is fired. My improved telescope is mounted in a manner to relieve the scope proper from excessive shocks and the scope can be readily removed and replaced on the gun without affecting the alignment of the scope to the gun.

The object of my invention is to provide a pair of mounts for a telescope, adjustable for elevation and windage. A further object is to provide one of said mounts with means adjustable horizontally and the other of said mounts with a V-formation for seating itself on the gun barrel. A further object is to employ a spring attached to the gun for holding the telescope and its mounts in tension engagement with the gun barrel. A further object is to provide novel means for raising and lowering the elevation of the reticule. A further object is to provide spring tension means for maintaining the scope in its windage and elevation adjustment.

My invention will be further readily understood from the following description and claims and from the drawing in which latter:

Fig. 1 is a side view of a rifle with my improved scope mounted thereon,

Fig. 2 is a vertical cross-section, taken in the plane of the line 2—2 of Fig. 1,

Fig. 3 is a vertical cross-sectional view, taken in the plane of the line 3—3 of Fig. 1,

Fig. 4 is a detail section, taken on the line 4—4 of Fig. 3,

Fig. 5 is a sectional detail, taken in the plane of the line 5—5 of Fig. 1,

Fig. 6 is a longitudinal sectional detail, taken in the plane of the line 6—6 of Fig. 5, and;

Figs. 7 and 8 are sectional views of modified forms of mounts.

The telescope comprises a tubular housing 11 which is provided with the usual lenses, one at the front, and one approximately central of the tube, and a focus lens mounted at the end of the tube. A pair of mounts are provided for the telescope and comprise a front mount 15 resting on a block 16 secured to the barrel of the gun as by screws 17, or the mount may be clamped around the barrel. It is understood that the

block 16 may be otherwise secured to the barrel 18 of the gun depending on the particular style or make of gun. The mount 15 is substantially wider than the block 16 and is provided with a groove 19 arranged to ride on the upper face of the block 16. A lug 20 extends upwardly on the block 16 through which an accurately cut screw 21 is threaded to provide windage adjustment for the scope, with the screw 21 accurate lateral or windage adjustment can be made and maintained. A spring 22 is secured to the other side of the block 16 and maintains the mount against the screw 21. The other mount comprises a split block 23 which is clamped about the scope 11 by means of a threaded screw 24. The bottom of this mount is provided with tapered faces 25 arranged to rest on the gun barrel 18. When lateral adjustment is made on the mount 15, the scope pivots on the V mount shown in Fig. 2.

A spring 26 has its free ends received in holes in the mount 15 forming pairs of loops 27 central of the spring and extending over the scope adjacent the mount 23. The loops 27 are arranged to be engaged over hooks 28 secured to the gun grip. Said hooks may be in the form of a wire clip encircling lower half of barrel. Thus by releasing the loops 27 from the hooks 28 the scope can be easily removed from the gun without effecting the windage adjustment heretofore described.

I also provide novel means for mounting the reticule in the telescope comprising a member 30 having flanges 31 and 32 arranged to snugly fit within the tube 11. A plate 33 is secured to the outside of the tubular housing 11 and has cap screws 34 extending through the plate, the tubular housing 11, and threaded into the flange 31 of the tubular member 30 for positioning the tubular member and plate relative to the tubular housing 11. A second tubular member 35 with its major portion of a smaller diameter is received adjacent to the end of the tubular member 30 having a pair of balls 36 positioned between the ends of the tubular members for forming a bearing about which the member 35 can rock. A rod 37 is secured to the member 35 and extends through openings 38 in the flanges 31 and 32 and has a tension spring 39 received over its extending end for creating a tension on the member 35 tending to lift the inner edge 40 of the member 35. A screw 41 has threaded connection with the plate 33 and having its inner end bearing against the tubular member 35 for positioning the tubular member 35 in the desired vertical position. A nut

42 received over the screw 41 locks the screw in adjusted position. The reticule pin 43 is secured to the end 40 of the tube 35 and through the adjustment of the screw 41 can be brought to perfect alignment for accurate firing of the gun. This pin 43 may be replaced with the conventional cross-hair reticule if desired.

In the modifications shown in Figs. 7 and 8, and referring particularly to Fig. 7, the mount comprises a pair of split members 50 and 51 received about the tube 11 and having screws 52 and 53 on each side thereof for clamping the members 50 and 51 in the desired position about the tube 11. The lower portions of the members 50 and 51 are provided with tapered faces 54 and 55 arranged to rest on the gun barrel 18. This mount may be used either at the forward or rear end of the telescope. In the modification shown in Fig. 8, a block 60 is suitably secured to the gun barrel 18 and is provided with a tapered extending pin 61 over which a tapered socket 62 in a member 63 is received. The member 63 is suitably attached to the tube 11 having its lower face resting on the upper face of the block 60. In using the mounts shown in Figs. 7 and 8 in conjunction with each other a fixed reticule may be used in the tubular member 11, inasmuch as the windage and elevation adjustments can be obtained through the mount shown in Fig. 7.

In adjusting the mount for windage the screws 52 and 53 are loosened sufficiently to permit the tube 11 to be slightly rotated within the mount for throwing the mount to one side or the other in its position on the barrel 18. Likewise in adjusting the mount for elevation the screws 52 and 53 are loosened and either the lower or upper screw is tightened for spreading or contracting the faces 54 and 55 to raise or lower the tube 11 relative to the gun barrel 18.

From the foregoing description it will be apparent that my improved gun mount and reticule permit exceedingly accurate adjustment and in the manner of mounting all shocks incident to the firing of the gun, will be absorbed by the spring 26, thus preventing damage to the scope or any of its parts and with the novel mounting means the scope is easily removed and replaced without affecting its proper adjustment to the gun.

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

1. In a telescope for a gun comprising a pair of mounts, one of said mounts being adjustable horizontally of the gun, the other mount pro-

vided with an inverted V-formation whose slopes rest on said gun and a spring extending over said telescope and attachable to said gun for maintaining said telescope and mounts in tension engagement with said gun.

2. In a telescope for a gun comprising a pair of mounts, one of said mounts being adjustable horizontally of the gun, the other mount provided with an inverted V-formation whose slopes rest on said gun barrel, a reticule in said telescope adjustable vertically about a pair of pivots, means offset from the line of action of said pivots for urging said reticule toward said pivots, and tension means for maintaining said telescope and mounts on said gun.

3. In a telescope for a gun comprising a support secured to the gun barrel, a pair of mounts on the telescope, one of said mounts resting on the gun barrel and the other on said support, means respectively carried by said mounts for adjusting said telescope for windage and elevation, and a spring for urging and maintaining the telescope and mounts toward and into contact with the gun and support.

4. A reticule for a gun telescope comprising a pair of sleeves within said telescope, one of said sleeves being fixed to said telescope, means for urging said second sleeve toward the fixed sleeve, pivot means between said sleeves offset from the line of action of said urging means, means for pivoting said second-named sleeve about said pivot against the action of said urging means, said reticule mounted in the end of said adjustable sleeve.

5. A reticule for a gun telescope comprising a pair of sleeves within said telescope, one of said sleeves being fixed to said telescope, means for urging said second sleeve toward the fixed sleeve, a pair of balls between the ends of said sleeves offset from the line of action of said urging means, a screw engaging said second-named sleeve for pivoting the end of said sleeve against the action of said urging means, said reticule mounted in the end of said second-named sleeve.

6. In a telescope sight for guns, a telescope, means between said telescope and gun for supporting and adjusting said telescope for windage and elevation, and a spring secured to said gun and extending over said telescope to urge said telescope and supporting and adjusting means toward said gun and maintain said telescope and adjusting means in position on said gun.

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