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TELESCOPE MOUNTING FOR GUNS

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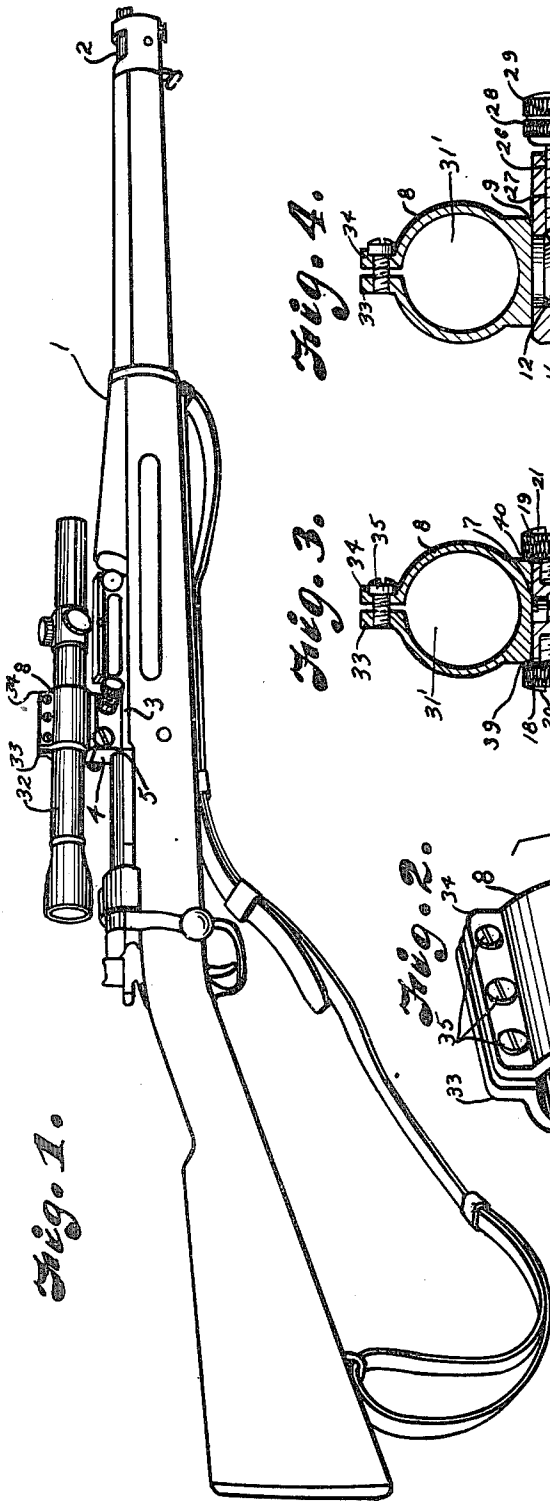


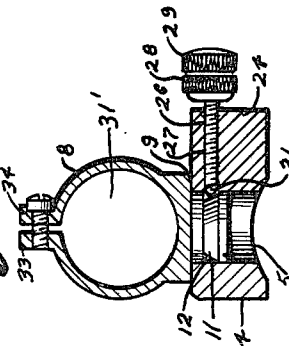
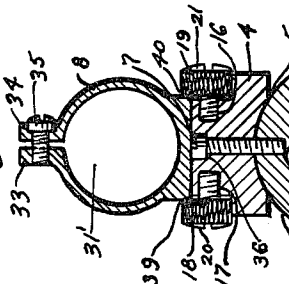
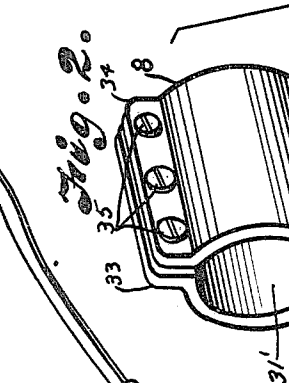
Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.



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TELESCOPE MOUNTING FOR GUNS

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1 Claim. (Cl. 33—50)

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This invention relates to a device for laying a gun and more particularly to a telescope mounting for guns, or other devices.

Mechanical devices employed to facilitate accurate laying constitute the sighting system of a gun. The path of a missile fired from a gun, called the trajectory, is a curve due to the action of the force of gravity and the resistance of the air. The force of gravity will cause the trajectory to bend downward, and if the missile is an oblong projectile rotating about its longitudinal axis, the resistance of the air will cause it to bend either to the right or left, depending upon the direction of rotation. It is, therefore, the purpose of a gun sight to overcome these difficulties by placing the gun sight on the gun barrel so that the barrel will be pointed in the direction of the target and the missile fired from the gun will carry accurately to the target.

Heretofore, it has been customary to place the sighting device stationary on the barrel of a gun. The difficulty with the stationary mounting of a telescope sight placed on the gun barrel is that if such sight is removed for any purpose, it is difficult to get the proper adjustment of such sight back on the barrel.

It is the purpose of applicant's invention to overcome this difficulty of adjustment by providing a mounting for telescopic sights which may be placed on the barrel of a gun and the telescopic sight removed and replaced thereon without precision adjustment of the sight with the barrel.

Other objects of the present invention are to provide a convenient, relatively economical, and highly efficient mounting for a telescopic gun sight; to provide for facilitating placement of the mounting on a gun barrel; to provide for adjustment of the telescopic sight on the mounting; and to provide improved elements and arrangements thereof in a gun sight mounting of the character and for the purposes noted.

In accomplishing these and other objects of the present invention, I have provided improved details of structure, the preferred form of which is illustrated in the accompanying drawing wherein:

Fig. 1 is a perspective view of my invention showing the same mounted on a gun barrel.

Fig. 2 is a perspective view of my mounting and the sleeve for holding the telescope sight shown in disassembled relation.

Fig. 3 is a cross sectional view of the mounting and sleeve in assembled relation.

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Fig. 4 is a cross sectional view taken on a line 4—4, Fig. 5.

Fig. 5 is a plan view with parts broken away to illustrate the adjusting screw.

Referring more in detail to the drawing:

1 designates a rifle of conventional type having a barrel 2 and chamber 3. My mounting structure proper comprises a base 4 which may be of any desired shape but is here shown to be substantially rectangular and provided with a longitudinal groove 5 in the underface thereof adapted to conform to the shape of the gun barrel 2. The base 4 is preferably fixed to the chamber 3 by screws or similar fastening devices 6 and 7, although it may be fixed to the barrel or what is sometimes called the receiver or chamber ring of the gun. 8 designates a split sleeve member having a plane underface 9 of slightly less width than the base 4 for a purpose later described. The sleeve 8 has a boss 10 having an annular V-shaped groove 11 therein depending downwardly from substantially the center of said sleeve adapted to fit into a cylindrical aperture 12 in the base 4.

In the upper marginal edge of the base member 4 and near the end 13 thereof I provide recesses 14 and 15 and having inwardly extending bore openings 16 and 17. The bore openings 16 and 17 are screw threaded and adapted to receive windage screws 18 and 19 having cylindrical heads 20 and 21 of a circumference sufficient to extend slightly above the base member 4 and provided with the usual grooves 22 in their outer faces adapted to receive a screw driver or other tool for adjustment of said screws.

The base 4 is provided with a boss 24 preferably on one side and at substantially the center thereof as indicated at 25. The boss 24 is provided with an opening 26 which also extends through the side wall 25 of the base to connect with the opening 12 therein. The opening is provided with screw threads 27 adapted to receive a set screw 28 having a head 29, threaded shank 30 and a point 31 adapted to extend through the opening 26 in the boss 24 and side wall 25 of the base 4 for engagement with the annular groove 11 in the depending boss 10 on the underside of the sleeve 8 when the sleeve is mounted on the base.

The opening 31' of the sleeve 8 is adapted to receive a telescope device 32, and the sleeve is provided on its upper cylindrical edge with flanges 33 and 34 having adjusting screws 35 thereon. When the telescope device 32 is placed in the opening 31' of the sleeve, tightening of

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the screws 35 will hold the telescope rigidly in place in said sleeve.

Assemblage of a device constructed as described is as follows:

The base 4 is rigidly attached to the barrel 2 of a gun of ordinary construction by the screws 6 and 7. It will be noted that the heads of the screws 6 and 7 are countersunk as indicated at 36 to provide a smooth surface 36' for the lower face 9 of the sleeve 8. When the base 8 has been attached to the gun barrel, the sleeve 8 is placed over the base with the depending boss 10 inserted in the cylindrical opening 12. When the sleeve 8 is placed on the base 4, the faces 37 and 38 of the windage screws 17 and 16 will contact the side walls 39 and 40 of the face 9 of said sleeve. By adjustment of the screws 16 and 17 the sleeve 8 may be adjusted for proper windage of the telescope device carried by the sleeve. The boss 10 is of a length sufficient to extend in the opening 12 a distance so that the point 31 of the shank 30 of the set screw 28 will contact the annular groove 11 in said depending boss. Pressure of the set screw on the sloping side 39 of the groove will tend to draw the boss downwardly and thus hold the sleeve rigidly on the base portion 4. Removal of the sleeve including the telescopic sight 32 is accomplished merely by loosening the set screw 28 a sufficient distance so that the point 31 will be free of the groove 11 and then the split sleeve 8 may be disengaged from the base 4.

It is apparent, therefore, that a convenient, economical and efficient telescope mounting has been provided by the present invention in which the telescope sight may be removed from and replaced on the mounting without adjustment relative to the gun barrel.

While I have shown my telescope mounting in connection with a gun, it will be apparent to those skilled in the art that it may be adapted to other purposes, such as mounting a telescope on a tripod or other instrument.

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What I claim and desire to secure by Letters Patent is:

A telescope mounting for guns comprising, a base member rigidly secured to a gun barrel, said base member having a cylindrical aperture extending vertically through the center of said base member and said base member having recesses in the upper edges of the respective sides near the rear end thereof provided with threaded openings, a split sleeve for carrying a telescope, said sleeve having a depending boss at substantially the center of said sleeve for rotatable engagement in the aperture in said base member and said boss having an annular recess therein, screws having threaded shanks engaging in the openings in the recesses in said base member and having heads extending above the upper edge of said base member for engaging the sides of said sleeve to rotate the sleeve on said base member for adjusting windage of the telescope carried by said sleeve, a boss extending from one side of said base member having a threaded opening extending through said boss and said base member to intersect with the aperture in said base member and align with the annular recess in the boss of said sleeve, and a screw having its shank engaged in said threaded opening and having its inner end pointed to engage in the annular groove in said boss to hold the sleeve rigidly to the base member.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,117,782	Camus	Nov. 17, 1914
1,710,547	Meise	Apr. 23, 1929
1,908,276	Aldeborgh	May 9, 1933
2,135,774	Tilden	Nov. 8, 1938
2,187,054	Redfield	Jan. 16, 1940