33-247. OR 1,117,782 SR

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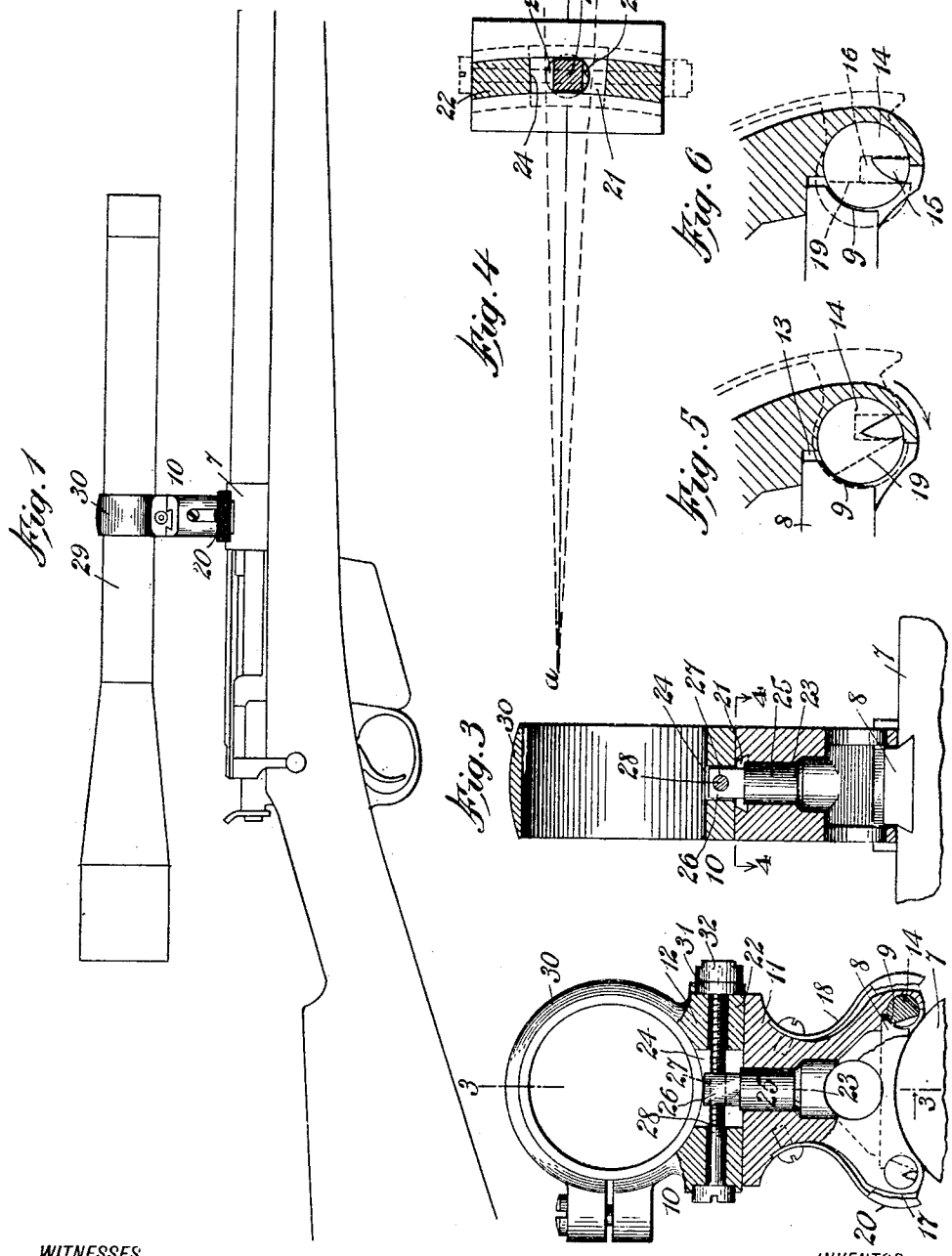
TELESCOPE MOUNTING FOR FIREARMS.

APPLICATION FILED DEC. 18, 1913.

1,117,782.

Patented Nov. 17, 1914.



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TELESCOPE-MOUNTING FOR FIREARMS.

1,117,782. Specification of Letters Patent. Patented Nov. 17, 1914.

Application filed December 18, 1913. Serial No. 807,428.

To all whom it may concern:

Be it known that I, EUGENE P. CAMUS, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Telescope-Mounting for Firearms, of which the following is a full, clear, and exact description.

My invention relates to improvements in telescope mountings used in connection with firearms, and the object thereof is to provide a simple, strong and adjustable mounting which can be easily and quickly connected or disconnected from the member carrying the mounting without any tool, which connection is not affected by the vibration set up by the discharge of the firearm, and which mounting affords a perfect lateral adjustment of the telescope thereon without any additional support for the telescope on the means carrying the same. I attain the above object by providing a base having automatic locking means for connecting the said base to the firearm, and which base is provided with a telescope support, and cooperating means connecting the base and support whereby said support is adapted to swing laterally on the base in an arc of predetermined curvature.

The invention relates to the construction and combination of parts to be more fully described hereinafter and fully set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which like characters indicate corresponding parts in all the views and in which:

Figure 1 is a side elevation of a firearm provided with a telescope mounting embodying my invention; Fig. 2 is a front elevation of the mounting, partly in section, showing the details of construction; Fig. 3 is a vertical section on line 3—3, Fig. 2; Fig. 4 is a horizontal section on line 4—4, Fig. 3; Fig. 5 is an enlarged sectional view of the locking end of the base, showing the said locking means in normal position; and Fig. 6 is a similar view showing the said locking means in released position.

Referring to the drawings, 7 represents the breech of a gun on which is provided a transverse member 8, preferably integral therewith, the ends of which are under cut by grooves 9 parallel with the axis of the breech. Removably secured to the said member 8 is a telescope mounting 10 formed of two parts, a base 11 and a telescope support 12. The base 11 at its bottom is provided with a recess 13 adapted to engage the member 8. Locking members 14 are provided at each side of the base 11 adjacent the bottom thereof, and a part of said locking members, which are in the shape of rollers, project into the said recess 13. The projecting ends of each of the locking rollers 14 are formed into a cam portion 15 engaged in a groove 16 provided in the side extension 17 of the resilient member 18 secured to the base 11. The tendency of the resilient member 18 is to move its unsecured end, where the extensions are provided, away from the base, thus tending to rotate the locking rollers 14 in the base in virtue of the eccentric position of the cam portion 15 on the locking roller 14 engaging the groove 16 of the resilient member.

To permit the engagement and the disengagement of the base 11 with the member 8, the lateral portion of the locking rollers 14 has a flattened portion 19 which is so related to the cam portion 15 of the roller and to the groove 16 that when the flexible members 18 are forced toward the base, the said locking rollers 14 are rotated in a direction indicated by the arrow in Fig. 5, bringing the flattened portion to the position shown in Fig. 6, thereby clearing the ends of the member 8. By releasing the resilient member 18, the said locking rollers are brought to their normal position, shown in Figs. 2 and 5, whereby the said rollers are brought into engagement with the groove 9 of the member 8, locking the said base to said member. The flattened portion 19 being normally inclined, as shown in Figs. 2 and 5, will come in engagement with the ends of the member 8 when said base is forced on to said member, thereby automatically forcing the resilient members toward the base while passing said ends, the said locking rollers then being restored to their normal position by the resiliency of the said members 18, therefore the said resilient members 18 are only manipulated when removing said base from the firearm. To facilitate the manipulation of the resilient members, each is provided with a milled surface 20 at its free end.

The base 11 at its top is provided with an arcuated dovetail groove 21 disposed

transversely to the longitudinal axis of the breech and into which groove fits a similar arcuated dovetail projection 22 of the support 12. The base 11 is also provided with a central bore 23; and the support 12, with a substantially central elongated recess 24. The said bore and recess are in alinement with each other, and both are at the contacting surface of the said support and base. Rotatably mounted in the bore 23 is a plunger 25, the upper portion 26 of which projects into the recess 24. The said portion 26 is provided with a threaded bore 27 engaged by a screw 28 carried by the support 12 transversely to the axis of the breech and mounted to rotate freely in said support. By rotating the screw 28 in the support 12, the support is translated laterally on the base 11 in the groove 21. The movement of said support on the base is limited by the engagement of the ends of the recess 24 with the sides of the portion 26 of the plunger 25.

The lateral translation of the support on the base by the screw causes the said support to swing on said base laterally in an arc, the center of which is at *a* (see Fig. 4), the said center being the center of curvature of the arcuated groove 21 and projection 22. From the above it will be seen that by turning the screw 28 in either direction the support 12 is swung laterally on the base in a corresponding direction, thereby permitting the adjustment of the telescope 29 carried by the split collar 30. The freedom of movement of the screw 28 in the support 12 is controlled by means of a washer 31 and a screw 32, whereby a self-locking arrangement between the said screw 28 and the plunger 25 is obtained, that is, when the support 12 is to be swung laterally on the base 11 by means of the screw a certain effort is required to overcome the resistance to the movement of said screw and also the frictional resistance between the dovetail projection 22 and the groove 21, and, therefore, the same will remain in said position undisturbed by the vibrations of the firearm.

From the above it will be seen that the essential of my invention is the provision of a telescope mounting whereby the said telescope can be swung laterally about a general center and which mounting can be easily and quickly attached or detached from a member associated with the firearm.

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

1. In a telescope mounting, a base having means for removably attaching the same to a firearm, said base having an arcuate dovetail groove at the top thereof and a central bore associated with said groove and perpendicular thereto; a telescope support having an arcuate dovetail projection adapted to engage the said groove of the base and a central recess associated with said projection and in alinement with said bore; a plunger in said bore projecting into said recess; and a screw carried by said support and engaging said plunger, whereby said support can be moved laterally in said groove of the base, the movement of said support on the base being limited by said recess in the support.

2. In a telescope mounting, a base having means for removably attaching the same to a firearm, said base having an arcuate dovetail groove at the top thereof and a central bore associated with said groove; a telescope support having an arcuate dovetail projection adapted to engage said groove of the base and also a central recess; a plunger mounted to rotate in said bore and engaging said recess, said plunger having a threaded aperture in said recess; and a screw carried by said support and engaging said threaded recess of the plunger, whereby in turning said screw said support can be translated laterally on said base.

3. In a telescope mounting, a base having an arcuate dovetail groove at the top thereof; a support for a telescope having a dovetail arcuate projection engaging said groove; and coöperating means carried by said base and support whereby said support can be translated laterally on said base, said means comprising a turnable nut in the base and a screw carried by the support engaging the nut.

4. In a telescope mounting, a base having an arcuate dovetail groove; a telescope support having an arcuate dovetail projection adapted to engage said groove; a nut in the groove and carried by said base; and a screw carried by said support engaging said nut whereby said support can be translated laterally on said base, said support having means limiting the movement thereof on said base.

5. In combination with a firearm having a projection, a telescope mounting comprising a base having a recess adapted to receive said projection; locking rollers carried by said base and adapted to coöperate with said projection; means for controlling the movement of said locking rollers.

6. In combination with a firearm having a projection thereon of a telescope mounting comprising a base having a recess adapted to receive said projection; locking rollers in said base adjacent the end of the recess adapted to engage said projection; resilient means for turning said locking rollers in said base whereby the coöperation of said rollers with said projection is controlled.

7. In combination with a firearm having a projection, said projection having undercut ends, with a telescope mounting compris-

ing, a base having a recess at the bottom thereof adapted to receive said projection; locking rollers in said base adjacent the end of the recess adapted to engage the undercut of said recess, said rollers having means for clearing said recess; resilient means engaging said locking rollers, the engagement between said rollers and the resilient members being such that the said resilient means normally tend to turn said locking rollers into a position whereby said base is locked to said projection, where, by the manipulation of said resilient means, said locking rollers can be made to clear said projection, thereby permitting the detaching of said base from the projection.

8. In a telescope mounting, a base having an arcuate dovetail groove at the top thereof; a telescope support having a dovetail projection and a recess, both at the bottom thereof, said projection engaging said groove; a nut in said recess mounted to rotate in the base; and a screw engaging the nut and carried by the support, whereby said support can be adjusted laterally on the base in an arc determined by the curvature of said groove and projection, the movement of said support on the base being limited by said recess in the support.

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

EUGENE P. CAMUS.

Witnesses:

BENEDICT JOFFE,

PHILIP D. ROLLHAUS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."