

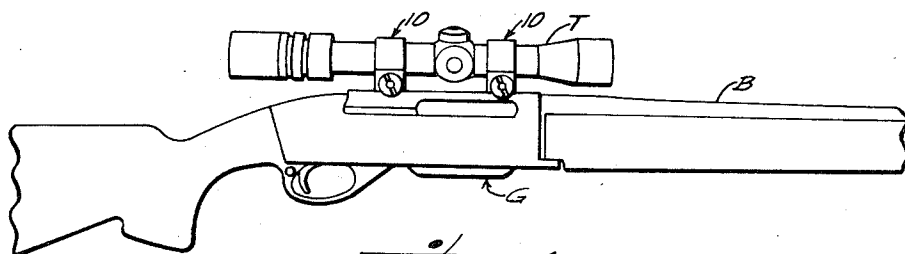
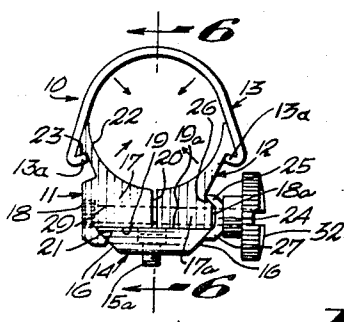
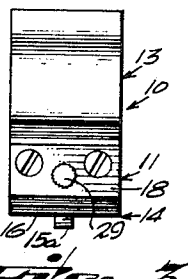
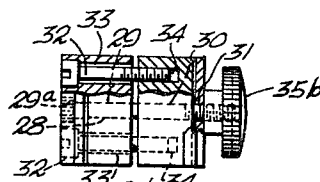
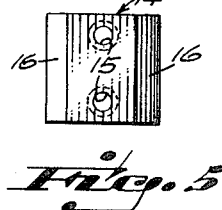
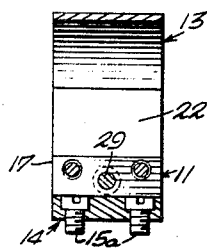
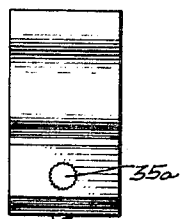
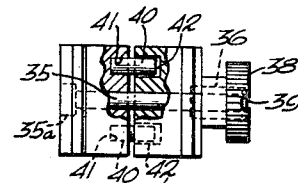
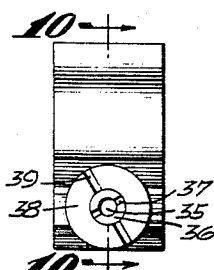
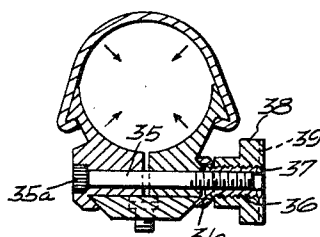
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3,424,420

DETACHABLE MOUNT FOR TELESCOPIC GUN SIGHTS

Filed Oct. 16, 1967



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## ABSTRACT OF THE DISCLOSURE

A telescopic gun sight mounting device comprising a pair of relatively movable bottom clamp members having opposed, substantially quarter-round surface areas for seating and clampingly engaging the underside of a gun sight barrel, and a substantially semicircular resilient saddle member interhooked in straddling relation to the outer ends of the bottom clamp members and operative to be radially retracted upon relative inward adjustment of the bottom clamp members, thereby to effect substantially uniformly distributed compressional force about a sight barrel to be clamped for mounting.

This invention relates to firearms and is directed particularly to novel and improved supporting devices or mounts for detachably securing telescopic gun sights to guns.

Mounting devices for removably attaching tubular telescopic gun sights to the receiver end of a gun barrel are well known and have been used extensively. Such telescopic mount devices as have heretofore been devised, however, are deficient in one or more respects, principally in that they utilize as a clamping means about the barrel of the telescopic sight, a two-clamp structure the elements of which are rigid or substantially rigid, secured in place in clamping engagement by means of interconnecting machine screws or the like. Since the nominal outer diameter of telescopic sight barrels of different makes, and even of the same make, vary from unit to unit, and since no diametrical adjustment is provided for in such mounts, the sight barrels are more often than not clamped with uneven pressure about their periphery, with the result that the clamp securing means must be tightened with great force to insure firm gripping action. Such inordinate tightening of the clamp structure on a poorly fitting gun sight barrel not only results in blemishing the barrel at the gripping surface areas where high pressure is being applied by the clamp members, but also can effect out-of-round distortion at such areas.

It is, accordingly, the principal object of this invention to provide a novel and improved detachable mount for telescopic gun sights which obviates the above-described deficiencies characteristic of gun sight mounts heretofore devised.

It is a more particular object of the invention to provide a telescopic gun sight mount the barrel clamping mechanism of which is comprised of a pair of relatively movable bottom clamp members having substantially quarter-round surface areas for seating and clampingly engaging the underside of a sight barrel, and a substantially semicircular, resilient saddle member the ends of which are hookingly interengaged with diametrically-opposed end portion of the bottom clamp members and operative to be radially retracted upon relative inward adjustment of the bottom clamp members for effecting substantially uniformly distributed compressional force about the periphery of a telescopic sight barrel.

Still another object of the invention is to provide a detachable mount of the character described which will be simple in construction, readily adaptable to use with

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mounting bases of various designs, foolproof in operation and durable in use.

Other objects features and advantages of the invention will be apparent from the following description when read with reference to the accompanying drawings. In the drawings, wherein like reference numerals denote corresponding parts throughout the several views:

FIG. 1 illustrates, in side elevation, a gun equipped with a telescopic sight secured by sight mounts embodying the invention;

FIG. 2 illustrates, in front elevation, a preferred form of sight mount embodying the invention, shown attached to a typical sight mount base;

FIG. 3 is a side elevational view of the sight mount shown in FIG. 2, as seen from the left side thereof with respect to FIG. 2;

FIG. 4 is a bottom view of the sight mount shown in FIGS. 2 and 3, shown without the associated attachment base and partly in section to illustrate constructional details;

FIG. 5 illustrates separately, in top view, a typical sight mount base used for connecting the sight mount to the receiver of a gun;

FIG. 6 is a vertical cross-sectional view taken along the line 6—6 of FIG. 2 in the direction of the arrows;

FIG. 7 is a side elevational view of a modified form of gun sight mount embodying the invention, shown attached to a typical sight mount base;

FIG. 8 is a bottom view thereof, shown separately and with portions broken away to illustrate internal structure;

FIG. 9 is a side elevational view of the sight mount shown in FIG. 7, as seen from the opposite side thereof; and

FIG. 10 is a vertical cross-sectional view taken along the line 10—10 of FIG. 9 in the direction of the arrow and illustrating construction details thereof.

Referring now in detail to the drawings, G designates a gun having a barrel B to the receiver end of which are affixed a pair of longitudinally-spaced, detachable sight mounts embodying the invention, generally indicated by reference numerals 10, shown mounting a telescopic sight T. As illustrated in FIGS. 2 and 3, each sight mount 10 comprises a pair of opposed bottom clamp members 11, 12 and an arcuate saddle member 13.

As illustrated in FIGS. 2 and 3, and as hereinafter more particularly described, the sight mounts 10 are customarily used in pairs spaced along the receiver end of the gun barrel, (see FIG. 1), and are adapted to be clampingly and detachably fixed with respect to mount base members such as are represented at 14 in FIGS. 2, 3 and 5, fixed as by machine screws 15a extending through base openings 15 and threaded into the gun barrel at the receiver end. As best illustrated in FIGS. 2 and 5, the mount base member 14 may be square or rectangular in shape, and formed along opposed slides extending longitudinally of the gun barrel with beveled, upwardly and outwardly divergent side wall portions or undercuts 16, 16 for clamping engagement therewith of sight mounts embodying the invention, as is hereinbelow more particularly described.

The bottom clamp member 11, which is preferably fabricated of anodized aluminum, comprises a body portion 17 having a vertical, outer side wall 18 and a recessed, horizontal bottom wall 19 the inner end of which extends into an inner vertical wall 20 and the outer end of which extends downwardly and inwardly into a recessed or undercut portion 21 of such angular cross-sectional shape along its length as to receive complementary fitted therein the angular projecting side wall portions 16 of a mount base member 14 (see FIG. 2). The upper end of the vertical wall 20 of the clamp member body portion 17 ex-

tends into an upwardly and outwardly-extending arcuate wall portion 22 which, as illustrated in FIG. 2, is substantially quarter-round in cross section along its length. The upper end of the arcuate wall portion 22, along the outside thereof, is formed along its length with an undercut or recess defining a downwardly and slightly inwardly-directed inclined shoulder 23 along the length thereof adapted for hooking interengagement therewith of the saddle member 13, as is hereinafter more particularly described.

The bottom clamp member 12 differs in construction from its companion bottom clamp member 11 principally in that its bottom wall 19a extends horizontally through the vertical outer side wall 18a thereof, thereby eliminating the angular recessed portion or groove 21.

Removable means is provided for clamping the bottom clamp member 12 against the angular projecting side wall portion 16 of the mount base member 14. To this end, as best illustrated in FIGS. 2 and 4, there is provided an elongated yoke member 24 of shallow, U-shape in cross-section, and having along its length an upper, inwardly-projecting lip portion 25 adapted to hookingly interengage a shoulder portion 26 formed along the outside of the body portion 17a of the bottom clamp member 12, and having along its length a lower inwardly-projecting lip portion 27 adapted to hook under the lower edge of the pertaining projecting side wall portion 16 of an associated mount base member 14. As illustrated in FIGS. 2 and 4, the bottom clamp member 11 is transversely drilled and counterbored at a central position thereof, as indicated at 28 in FIG. 4, to receive, friction-fitted therein, a machine screw 29 having a fluted head 29a.

The machine screw 29 extends through a bore 30 in the companion bottom clamp member 12 and a central opening 31 in the yoke member 24 to receive a thumb-nut 35b for clamping the mount in place on a mount base member 14, as is hereinbelow more particularly described. As best illustrated in FIG. 4, a pair of machine screws 32, 32 extend through countersunk bores 33, 33 in the bottom clamp member 11 at each side of the screw 29, to be threadingly received in tapped blind openings 34, 34 provided in the bottom clamp member 12 for adjustably drawing said clamp members together upon attachment to the barrel of a telescopic sight.

Considering now the operation of the sight mount 10 illustrated in FIGS. 1 through 4, and referring particularly to FIG. 2, the barrel of a gun sight to be mounted will be seated upon the arcuate wall portions of the bottom clamp members 11, 12, after first having removed the arcuate yoke member 13. As illustrated in FIGS. 2, 3 and 6, the yoke member 13 is formed with inwardly-bent end portions 13a, 13a adapted to hookingly engage under the shoulders 23 of the bottom clamp members 11, 12, and can be disengaged by axial sliding movement thereof with respect to said clamp members. After the telescopic sight barrel is seated and the arcuate saddle member 13 is fitted in place, the machine screws 32, 32 will be tightened, each a little at a time, alternately, to draw the bottom clamp members 11 and 12 into clamping engagement with the underside of the telescopic barrel. At the same time, due to the resiliency of the saddle member 13, it will be drawn inwardly about the top portion of the gun sight barrel to compress it substantially uniformly about the periphery of the barrel. It will thus be apparent, as illustrated by the circularly-spaced, radially-extending force arrows in FIG. 2, that substantially uniform compressional force will be applied about the barrel of a gun sight where clamped, to insure firm gripping without areas of excessive stress, and with minimum possibility of marring or otherwise blemishing the surface areas of a telescopic sight being clamped. Once a pair of sight mounts 10 are secured in place, the assembly can readily be attached to the gun barrel mount base members by fitting them in place thereon and clamping them by tightening the thumb-nut 35b against the yoke member 24.

The embodiment of the invention illustrated in FIGS. 7 through 10 differs from that of FIGS. 1 through 6 in that the central machine screw 35 having a fluted end 35a (corresponding to the machine screw 29 in FIG. 4) is fitted with an internally and externally-threaded sleeve nut 36, slotted at its outer end (as best seen at 37 in FIG. 9) to enable tightening thereof by the use of a screw-driver or spanner tool. The inner end of the sleeve nut 36 passes freely through an enlarged opening 31a in the yoke member 24 to permit abutting engagement against the outside of its associated clamp member (see FIG. 10). In this embodiment of the invention the machine screw 35 and its sleeve nut 36 serve to draw the opposed bottom clamp members together when clamping to a telescopic sight barrel. As illustrated in FIG. 8, guide pins 40, press-fitted or otherwise secured within a pair of bores 41 in one of the base members at each side of the machine screw 35, fit slidably in opposed bores 42 of the other of said bottom clamp members. The thumb-nut 38, diametrically-slotted at its outer end as illustrated at 39, is threadingly received over the sleeve nut 36 and serves to clamp the sight mount to a mount base member 14 for example, as in the embodiment of the invention illustrated in FIGS. 1 through 6. It will be apparent that the operation of the embodiment of the invention illustrated in FIGS. 7 through 10 is otherwise the same as that for the first embodiment shown in FIGS. 1 through 6, described above.

While I have illustrated and described herein only two forms in which my invention can conveniently be embodied in practice, it is to be understood that these forms are presented by way of example only and not in a limiting sense.

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

1. A detachable mount for telescopic gun sights comprising, in combination, a pair of relatively movable bottom clamp members having opposed, facing, arcuate surface areas defining, together, a substantially semicylindrical inner surface for receiving seated thereon a peripheral portion of a gun sight barrel, a substantially semicylindrical, resilient saddle member, releaseable means for attaching the ends of said saddle member with the outer ends of said bottom clamp members for supporting said saddle member in straddling relation with respect thereto, and means for securing said bottom clamp members in relatively adjusted positions for securing a gun sight barrel in clamping engagement between said saddle member and said bottom clamp members.

2. A detachable mount for telescopic gun sights as defined in claim 1, wherein said saddle member attaching means comprises outwardly and downwardly-directed shoulders formed along the outsides at the outer ends of said bottom clamp members, and opposed, inwardly-bent hook portions provided at the ends of said saddle member for hooking engagement under said shoulders.

3. A detachable mount for telescopic gun sights as defined in claim 1, wherein said means for securing said bottom clamp members in relatively adjusted position comprises a machine screw extending through aligned openings in said bottom clamp members and having a first nut threadingly received on an outer end portion thereof.

4. A detachable mount for telescopic gun sights as defined in claim 2 including means for attaching said bottom clamp members to a mount base member.

5. A detachable mount for telescopic sights as defined in claim 4, wherein said mount base member attaching means comprises a longitudinally-extending undercut recess formed along the underside of one of said bottom clamp members and operative to interfit along one side of a mount base member, an elongated yoke member having opposed, end-to-end, inwardly-directed lip portions adapted to engage, respectively, a shoulder formed along the outside of the other of said base members and the

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opposite side of a mount base member, and means for clampingly securing said yoke member with respect to said base members and a mount base member.

6. A detachable mount for telescopic sights as defined in claim 5, wherein said means for securing said bottom clamp members in relatively adjusted position comprises a machine screw extending through aligned openings in said bottom clamp members and having a first nut threadingly received on an outer end portion thereof.

7. A detachable mount for telescopic gun sights as defined in claim 5, wherein said yoke member clamping means comprises said machine screw and nut.

8. A detachable mount for telescopic gun sights as defined in claim 6, wherein said yoke clamping means comprises another machine screw extending through aligned openings in said bottom clamp members and an opening in said yoke member and having a nut threadingly received on an outer end portion thereof.

9. A detachable mount for telescopic gun sights as defined in claim 6, wherein said clamping means comprises said machine screw and said nut, said nut being in the form of an externally and internally-threaded sleeve nut, and an opening in said yoke member large enough to pass said sleeve nut.

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10. A detachable mount for telescopic gun sights as defined in claim 9 including a pair of spaced, parallel locating pins secured in openings in one of said bottom clamp members and extending slidably into aligned openings in the other of said bottom clamp members.

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U.S. Cl. X.R.

248—230, 316; 33—50