July 21, 1953 J. T. IVY 2,645,855

TELESCOPE MOUNTING FOR RIFLES

Filed Oct. 23, 1951

Fig. 1

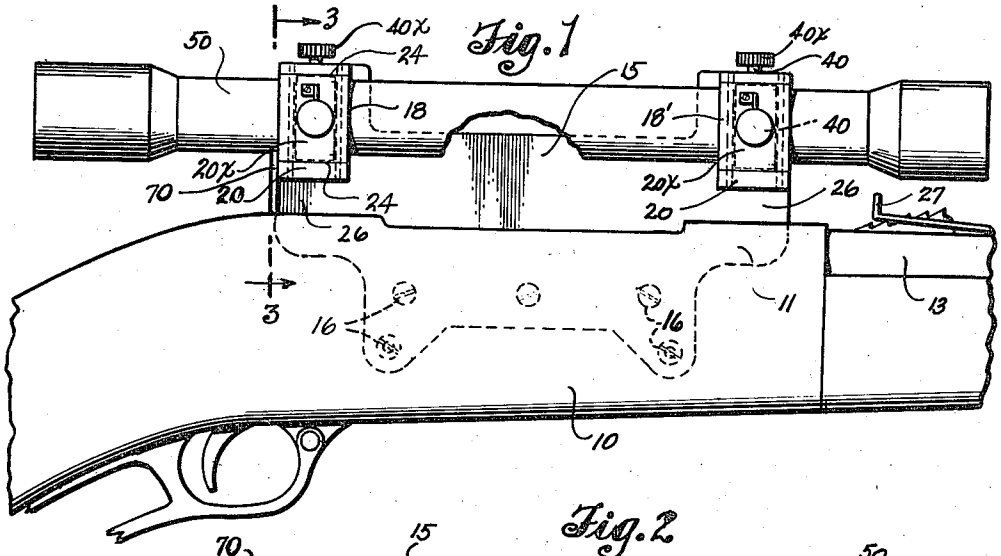


Fig. 2

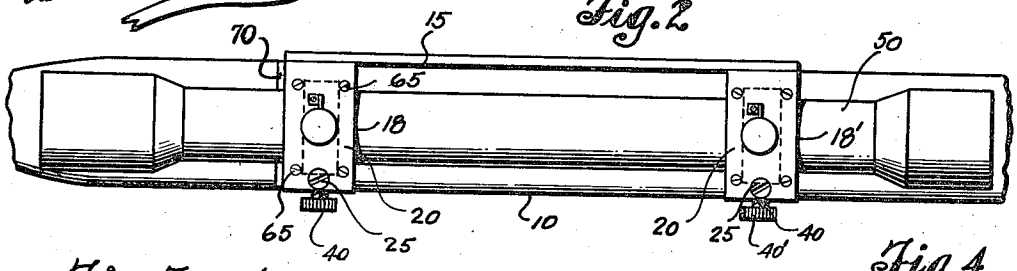


Fig. 3

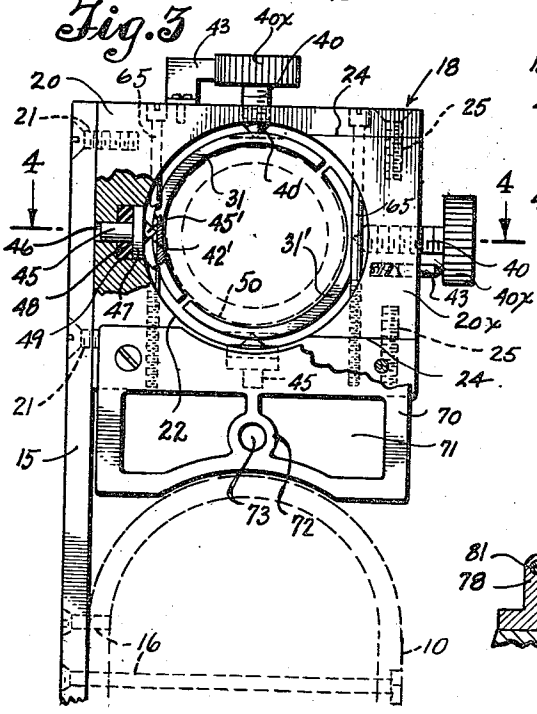


Fig. 4

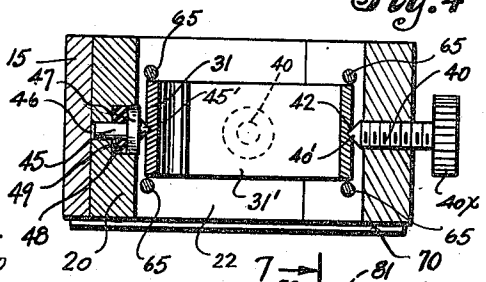


Fig. 5

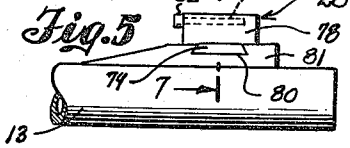


Fig. 6

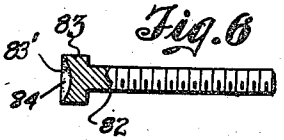


Fig. 7

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TELESCOPE MOUNTING FOR RIFLES

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2 Claims. (Cl. 33—50)

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This invention relates to mountings as applied to hunting or target rifles, and the like, for the functional support of telescopes as used to aid in sighting on distant objects. More particularly the invention has reference to mountings that are designed for the reception and support of telescopes with end enlargements that prevent the endwise application of the telescope to its supports as is sometimes the case.

It is the principal object of the present invention to provide novel mountings of the above character that can be so applied to the gun as not to interfere with sighting an object.

It is also an object of the invention to provide mountings that are attached to a side plate, and which plate can be readily detached from the gun if such is desired, and will thereby bodily remove the mountings and telescope from the gun.

Yet another object is to provide mounting blocks that are adapted to be attached to a side plate, and are formed at the side opposite the plate with recesses designed to receive the barrel portion of the telescope therein.

Yet another object of the invention resides in the details of construction of a novel form of front end sight for the gun.

Still further objects reside in the details of construction and combination of parts embodied in the mountings for the telescope, and the use therewith of a rear "peep sight" and an illuminated front end sight.

In accomplishing these and other objects of the invention, I have provided the improved details of construction, the preferred forms of which are illustrated in the accompanying drawings, wherein—

Fig. 1 is a side view of a gun equipped with telescope mountings embodied by the present invention; and a telescope applied thereto.

Fig. 2 is a top view of the same parts.

Fig. 3 is an enlarged, cross-sectional view, taken substantially on line 3—3 in Fig. 1.

Fig. 4 is a horizontal, section taken on line 4—4 in Fig. 3.

Fig. 5 is a side view of my improved form of outer end sight as applied to the gun barrel.

Fig. 6 is a side view, partly in section of the illuminated sight mounting screw.

Fig. 7 is a cross-section taken on line 7—7 in Fig. 5.

Referring more in detail to the drawings—

In Figs. 1 and 2, I have shown a portion of a gun to which the present telescope mounting means has been applied. A portion of the gun frame is designated by numeral 10 and in this

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frame the breach portion of the gun barrel 13 is secured. Applied to one side of the frame, and extending along the breach portion of the barrel is a flat, vertical plate 15 which is fixedly secured to the frame by a plurality of bolts and screws 16 shown in dotted lines in Figs. 1 and 2. The plate 15 extends substantially above the level of the frame and breach portion of the barrel, as well shown in Figs. 1 and 3.

Fixed to the plate 15 adjacent its forward and rearward ends, are the telescope mountings of this invention, which are designated in their entireties by reference numerals 18 and 18'. Each is like the other and, therefore, in the following description, mounting 18 will be described in detail, with the understanding that the description applies equally to both mountings.

As best shown in Figs. 3 and 4, the mounting 18 comprises a rectangular block 20 of metal, such as aluminum or other suitable material, that is disposed with one end flatly engaged against the inside surface of the plate 15 as shown in Fig. 3, and secured thereto by means of screws 21. The block is formed with a large round hole 22 therethrough. This hole is directly above and axially parallel with the gun barrel. At one side of the hole 22, the metal of the block is cut free as indicated by the lines 24—24 in Figs. 1 and 3, and this detached portion of the block, designated by reference numeral 20x, is normally secured in its original position by screws 25 that are applied vertically through top and bottom portions of the block, as seen in Fig. 3.

The blocks 18—18' are supported by the plate 15 somewhat spaced above the frame 10, thus providing open spaces, as at 26—26 in Fig. 1, between them and the frame for normal sighting of the gun by use of the rear sight 27 seen in Fig. 1, and the front end sight 28, shown only in Fig. 5, and later described in detail.

Located within the hole 22 of the block and coaxially thereof, is a short cylindrical collar or band made up of two complemental semi-circular segments 31—31'. The outside diameter of the collar is somewhat lesser than the diameter of the hole 22 that contains it, thus to provide for lateral adjustment of the collar in the block for the aligning of the telescope, as is presently explained.

It is shown in Fig. 3 that each segment of the collar is supported by two pivot like supports mounted in the block and extended into the hole 22, at 90° spacing. One of the supports comprises an adjusting screw 40 that is adjustably threaded through the block wall and which has a

conically tapered inner end portion 40' seated in a V-shaped channel 42 that is formed in the outer surface of the segment in its circumferential direction. The screw has a knurled head 40x at its outer end whereby it can be inwardly or outwardly adjusted, and a spring clip 43 on the block engages yieldingly with the head 40x to retain any adjustment of the screw that has been made.

The other support comprises a stud 45 that is slidably fitted in a hole 46 formed in the block. The stud has a conically tapered inner end portion 45' engaging in a V-shaped channel 42' formed in the segment in a direction circumferentially of the collar. The stud has an encircling flange 47 and this bears against a rubber cushion 48 seated in a socket 49 that opens to the hole 46. In the disposition of the four pivot members, as shown in Fig. 3, it is to be noted that each screw 40 is directly opposite one of the yieldably mounted studs 45.

The telescope 50 is contained in the two mountings within the two collars, each comprised by the semi-circular segments 31—31'; these being fitted closely to the telescope barrel as indicated in dotted lines in Fig. 3.

To apply the telescope 50 to the mountings 18—18'; and functionally secure it, the side portions 20x of the blocks are first removed. The segmental bands 31—31' are then fitted to the telescope, at proper spacing and the assembly is then laid in the holes of the blocks through their open sides. Then the removed side portions 20x of the blocks are replaced and secured by the screws 25. In this assembling, the pivot-like supports 40 and 45 are caused to be seated in the V-shaped channels 42—42' of the two segments, as has been clearly shown in Fig. 3. Finally the screw supports 40 are adjusted inwardly or outwardly as required to bring the telescope in exact alignment with the barrel.

It has been shown in Fig. 4 that the segmental collar is cylindrical and of lesser length than the hole 22 of the block containing it, and that it is located centrally of the hole. To aid the supporting members 40—45 in keeping the collar in this position, pins 65 are passed vertically through the block, to engage with opposite ends of the collar at opposite sides of the contained telescope barrel, as best shown in Fig. 4. These pins are threaded at their lower ends for their fixed securement.

For ordinary sighting, the gun sights 27 and 28 can be used in the usual way. For accurate sighting, a peep sight plate 70 is attached to the lower edge portion of the rear block to extend downwardly therefrom. This has a substantial open space 71 across which is a web 72 containing a peep hole 73.

At the front end of the barrel is the sight 28 shown in Figs. 5, 6 and 7. This comprises a vertical lug 78 mounted on a cross bar 79 that has a dove tailed fit in a cross channel 80 in a rib 81 formed along the end of the barrel.

Threaded into the lug, at its inner end is a screw 82 with head 83 formed with face depression 83' containing a luminous substance 84 that is readily seen when sighting through the peep hole of the plate 70.

With the mountings so formed, a telescope of the character shown, with end enlargements, can be easily and readily applied. After being mounted it can be left in place and will not interfere with normal sighting by use of the gun sights.

The device can be bodily removed by detachment of the plate 15.

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

1. The combination with a gun having a frame portion and a barrel supported thereby, of a telescope mounting means comprising a plate that is removably fixed to the said frame portion to extend along one side thereof, two blocks fixed on the plate in spaced relationship along the barrel, and with clearance about it, each formed with an opening therethrough and said openings of the two blocks being in alignment for the containing of the barrel portion of a telescope therein, and telescope mounting and alignment adjusting means contained in the block openings; said blocks having those side portions that are opposite the mounting plate removably secured to the blocks, and removable therefrom for the dismounting or mounting of the telescope.

2. The combination with a gun having a frame portion and a barrel supported thereby, of a telescope mounting means comprising a plate that is fixed to the said frame portion to extend along the barrel, two blocks fixed on the plate in spaced relationship along the barrel, each formed with an opening therethrough and said openings of the two blocks being in alignment for the containing of the barrel portion of a telescope therein, telescope mounting collars contained in the block openings with clearance thereabout, and collar engaging supports adjustably applied to the blocks, said blocks having those side portions thereof that are opposite the mounting plate removably secured to the blocks and removable for the dismounting of the telescope from the blocks.

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