May 10, 1932. J. HERMAN 1,857,782

GUN SIGHT

Filed Dec. 11, 1928

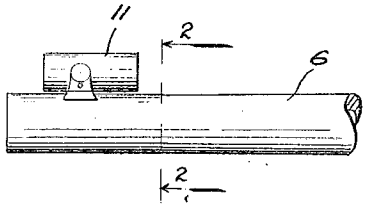
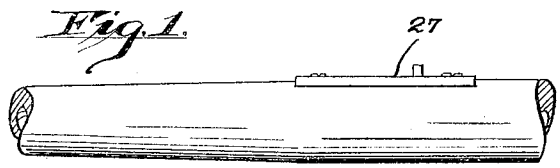


Fig. 1.



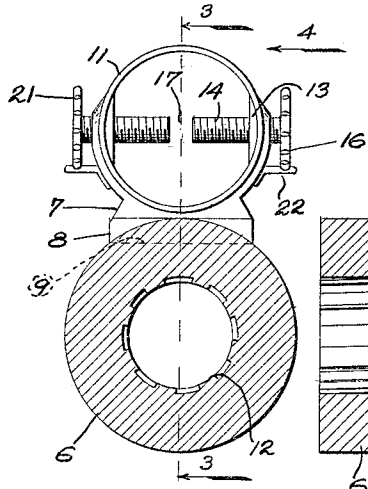


Fig. 2.

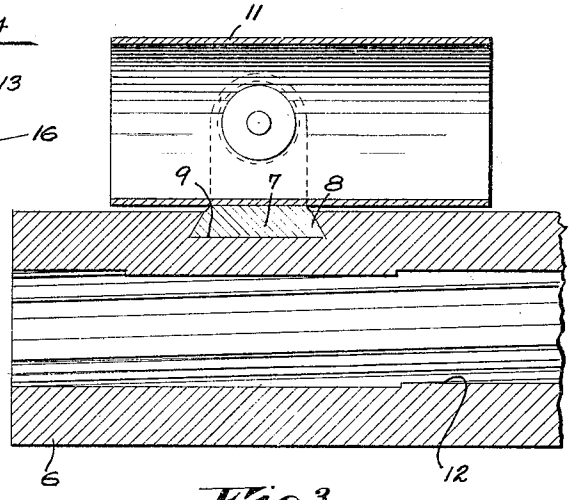


Fig. 3.

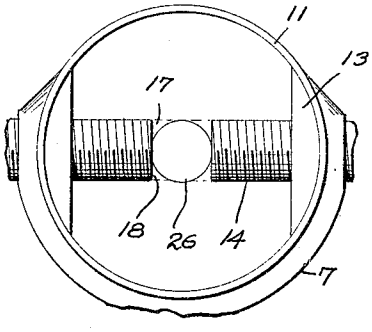


Fig. 5.

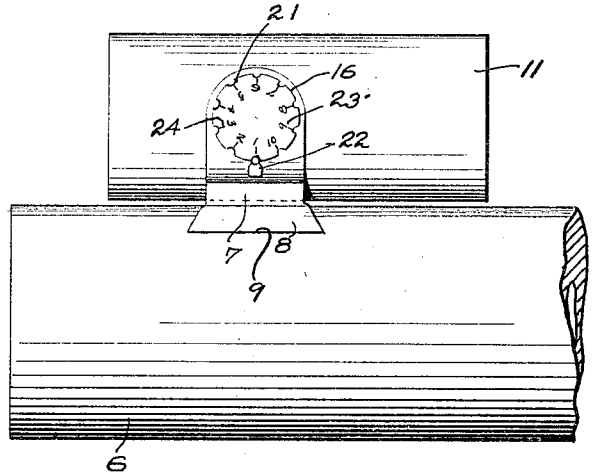
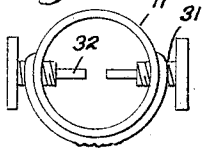


Fig. 6.

Fig. 4.



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UNITED STATES PATENT OFFICE

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GUN SIGHT

Application filed December 11, 1928. Serial No. 325,163.

This invention relates to gun sights, and has for an object the provision of an improved type of gun sight capable of enabling the user to draw a bead upon any target with a greater degree of accuracy.

A more detailed object is the provision of a gun sight particularly adapted for use as the forward sight of the gun, and including a pair of spaced pins preferably in axial alignment with their adjacent ends spaced to define a space therebetween. A forward sight constructed in this fashion, is intended to be used in drawing a bead upon a target by sighting with a specified portion of a notch in the after side and the space between the pins of the forward sight in alignment with the target. It is obvious from this description, that that portion of the target upon which the bead is being drawn, is not obscured from the vision of the user as is the case when using a forward sight of conventional design.

A further object is the provision of a gun sight comprising a pair of aligned and spaced pins as above specified, and in which the pins extend radially inwards from a tube which is secured in axial parallelism with the barrel of the gun, with the result that the ends of the pins by which the sighting space therebetween is defined, are not distorted in the sight of the user by objectionable shadows as would be the case if no such lighting shield were provided for the sight.

A still further object is the provision of a gun sight as described, wherein the pins are threaded through the walls of the tube, permitting adjustment of the pins to shift the sighting space as in compensating for wind velocity, and also to permit variation of the size of the space itself, to facilitate drawing beads upon targets of different sizes.

A still further object is the provision of a gun sight including the adjustable pins as described, in which the pins are provided with suitable indicia for indicating the selected position of the pins, and for assisting in the proper positioning of the pins to meet the different requirements of use.

The invention possesses other objects and advantageous features, some of which, with those enumerated, will be set forth in the following description of the invention's particular embodiment which is illustrated in the drawings accompanying and forming a part of the specification.

Referring to the drawings:

Figure 1 is a side elevation of a gun barrel with a conventional after sight secured thereto, and with the improved forward sight of my invention in operative position for use in conjunction therewith. Portions of the figure are broken away to reduce its length.

Fig. 2 is a vertical sectional view taken transversely of the gun barrel, upon the line 2—2 of Fig. 1, with the direction of view indicated by the arrows.

Fig. 3 is a longitudinal, vertical sectional view, the plane of section being taken upon the line 3—3 of Fig. 2, and the direction of view being indicated by the arrows.

Fig. 4 is a side elevation, the direction of view being indicated by the arrow 4 of Fig. 2.

Fig. 5 is an enlarged view of the forward sight as seen by the user when drawing a bead upon a target. The target is shown foreshortened as it appears to the user while drawing a bead thereupon, and portions of the figure are broken away to reduce its length.

Fig. 6 is a smaller view similar to Fig. 5, showing a slightly modified form of the invention.

Specifically describing the invention in its preferred embodiment, the gun sight is herein shown as being affixed in operative position adjacent the forward end of a gun barrel 6. The sight is supported upon a suitable bracket 7, the lower end 8 of which is preferably wedge-shaped to be received within a dovetail groove 9 which extends transversely of the barrel 6, upon the top surface thereof. Supported upon the bracket 7 and rigidly secured thereto in any suitable manner such as by welding, is an open-ended tube 11, which is disposed in axial parallelism with the bore 12 of the barrel 6. Suitable bosses or portions 13 of increased thickness are provided upon opposite sides of the tube 11; and pins 14 are threaded through these thickened sides to extend radially inwards in re-

spect to the tube, toward each other and in axial alignment with each other. Each pin 14 is provided upon its outer end with a head 16, by means of which the associated pin 14 may readily be turned to effect longitudinal shifting thereof. As a result of such shifting, it is readily understood that the size of the space 17 between the inner ends 18 of the pins 14, may be varied, and also the space 17 may be shifted laterally in respect to the gun barrel 6, as is frequently desirable in compensating for different wind velocities.

Preferably each head 16 is provided with suitable corrugations 21; and a preferably resilient finger 22 is rigidly attached as by welding, to each side of the bracket 7, in position to extend outwards therefrom and frictionally engage the edge of the associated head 16 as clearly shown upon Fig. 2. It is obvious that the provision of the fingers 22, makes possible the releasable retention of the pins 14 in adjusted position.

A plurality of indicia 23, are provided upon the outer face of each head 16, and are so arranged that the position of the associated pin at any particular time, may be instantly ascertained by observing which of the various graduation marks 24 indicated by the indicia 23, is nearest the finger 22, which thus serves as an indicator.

In operation, the sight of the present invention is designed to be used by drawing a bead upon a target 26 by sighting through a notch in the after sight 27, through the space 17 between the pins 14, with the target 26 in the line of vision of the user. It is thus readily apparent that when so drawing a bead, the target is not obscured from the view of the person sighting. Evidently then, this is a distinct improvement over the conventional type of gun sight which requires positioning a solid projection against that portion of the target, upon which the bead is being drawn. Furthermore, the space 17 may be varied in size, to facilitate aiming at targets of various sizes and at different distances. The most desirable arrangement however, is that the space 17 corresponds in width to the diameter of the pins 14 so that the space 17 is substantially square, resulting in a minimum distortion of the appearance of the target 26, to the person taking aim. Windage may be compensated for by so shifting the pins 14 that the space 17 is moved to the desired side, to compensate for the particular wind velocity. The indicia 23 upon both heads 16 are useful both in varying the size of the space 17, and also in compensating for windage.

Figure 6 shows a slightly modified form of the sight of my invention. Here the pins 31 which are threaded through the sides of the tube 11, are each provided with an extension 32 of reduced diameter. When this modification is employed, less of the target is obscured from the view of the user, and sighting is thus facilitated and made more accurate.

It is to be understood that the details of the invention as herein disclosed, are subject to alteration within the spirit or scope of the appended claims.

I claim:

1. A gun sight comprising an open-ended tube, means for securing said tube to a gun barrel adjacent the forward end thereof and in axial parallelism therewith, and a pair of pins adjustably threaded through opposite sides thereof and extending radially of the tube toward each other, the adjacent ends of said pins defining a space therebetween and the outer ends of said pins being accessible exteriorly of said tube.

2. A gun sight comprising an open-ended tube, means for securing said tube to a gun barrel adjacent the forward end thereof and in axial parallelism therewith, a pair of pins adjustably threaded through opposite sides thereof and extending radially of the tube toward each other, the adjacent ends of said pins defining a space therebetween, and a head rigid with each of said pins outside said tube.

In testimony whereof I have signed my name to this specification.

JOHN HERMAN.