

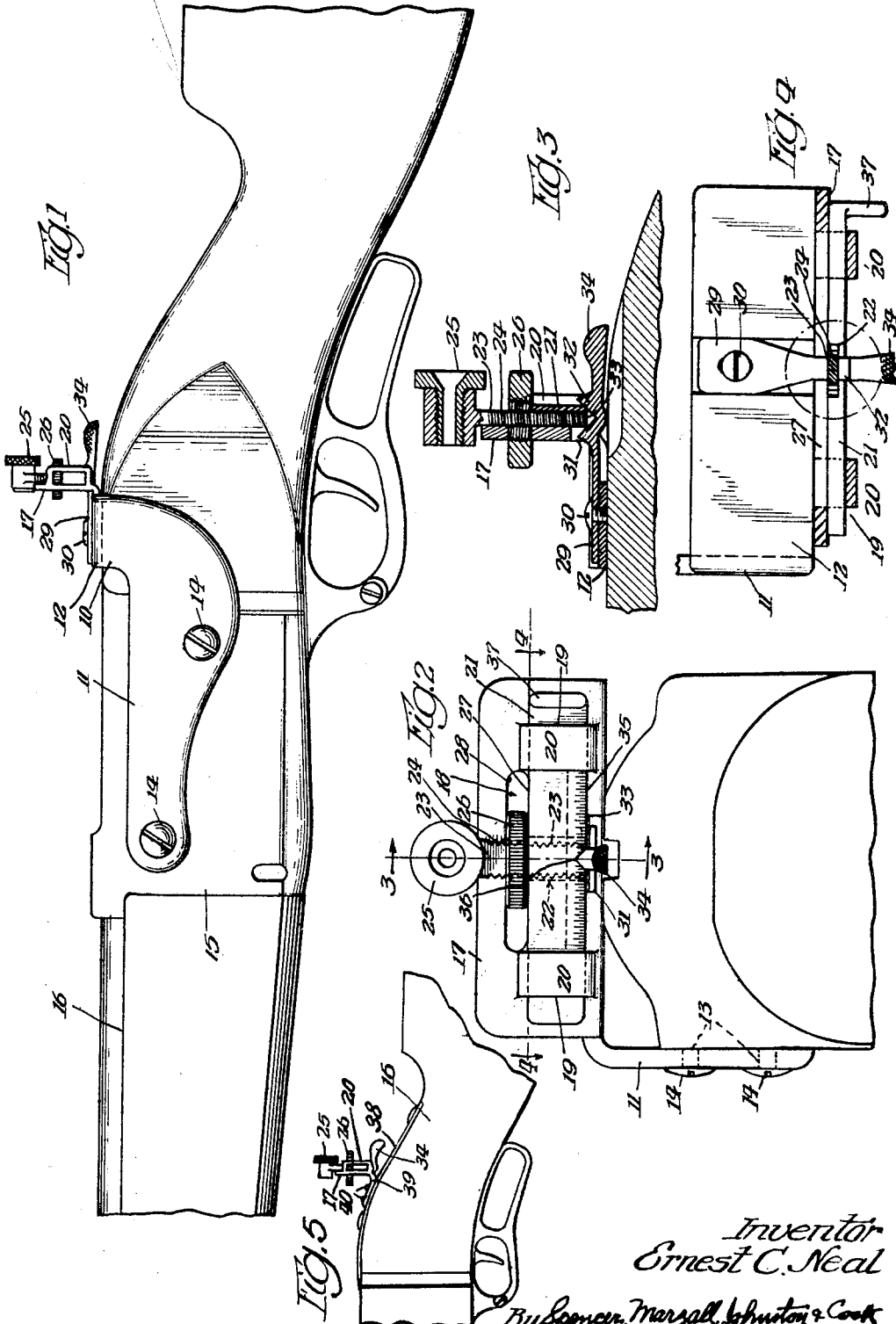
July 6, 1948.

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2,444,844

GUNSIGHT

Filed Jan. 31, 1944



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Patented July 6, 1948

2,444,844

## UNITED STATES PATENT OFFICE

2,444,844

## GUN SIGHT

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Application January 31, 1944, Serial No. 520,402

11 Claims. (Cl. 33—56)

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This invention relates in general to a gunsight assembly and more particularly to a gunsight assembly including a peepsight and means for adjusting the position of the peepsight in two directions at right angles to each other.

An object of this invention is to provide compact, safe, simple, durable and efficient means for mounting a gunsight on a gun with provision for adjusting the position of the gunsight in two directions at right angles to each other, quickly and accurately.

Another object of the invention includes the provision in such an assembly of novel means for securing the adjustable parts of the assembly in selected positions of adjustment. Additional objects, advantages and capabilities inherent in this invention will become readily apparent from the description thereof which follows.

A further object of the invention is the provision of a simple and accurate gunsight assembly or mechanism which can be made extremely economically and certain of the parts of which may be made from metal stampings and closely fitted together so as to maintain accuracy, the structure being constructed and arranged to provide for both vertical and lateral or horizontal adjustment of the sight piece to compensate for range distance variations and wind deflections.

This invention further resides in the combination, construction and arrangement of parts illustrated in the accompanying drawings, and while there is shown therein preferred embodiments of the invention, it is to be understood that the same are susceptible of modification and change without departing from the spirit of the invention.

The accompanying drawings illustrate a selected embodiment of the invention, and the views therein are as follows:

Fig. 1 is a fragmentary side elevation of a gun embodying the invention;

Fig. 2 is an end view of a device embodying the invention, looking to the left in Fig. 1;

Fig. 3 is a sectional view along the line 3—3 of Fig. 2;

Fig. 4 is a sectional view taken along the line 4—4 of Fig. 2;

Fig. 5 is a fragmentary side view of a gun embodying a modified form of the invention.

The particular device herein disclosed for illustrating the invention comprises a supporting frame 10 having a bracket portion 11 and an angulated portion 12 arranged in angular spaced relation with the bracket portion. As shown in

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Fig. 2 the bracket portion 11 is provided with spaced opening 13 for receiving screws 14 which are threadedly received in correspondingly spaced openings provided in the receiver 15 of a gun 16.

The angulated portion 12 of the supporting frame extends from one end of the bracket portion 11 transversely of the gun from one side thereof to the opposite side approximately, as shown in Fig. 2, with the under surface of the portion 12 in abutting relation with the adjacent portion of the upper surface of the gun. The portion 12 includes an angular upstanding portion or plate 17 having a generally rectangular, elongated, central opening 18 and spaced slits 19, which define the outstruck portions forming lugs or straps 20 connected by integral intact parts. The slits 19 and the outstruck portions 20 are arranged to receive a plate or bar 21 in substantially parallel, and freely slidable relation longitudinally of the frame portion or plate 17. The slits 19 are arranged to enable slight movement of the bar 21 lengthwise of the slits as well as freely slidable movement of it in a direction at right angles thereto.

The bar 21 has a generally central cut-away portion 22 for receiving the sight piece or peepsight supporting bar 23 in freely slidable relation transversely of the bar 21. The cut-away portion 22 and the outstruck portions 20 are arranged to enable movement of the bar 23 and the sight piece or peepsight 25 supported thereon in a direction generally at right angles to the direction of freely slidable movement of the bar 21 and intermediate adjacent surfaces of the bar 21 and the upstanding portion 17 of the frame, as shown in Fig. 3.

The bar 23 has part threads on its opposite edges 24 and carries an adjusting nut 26, which is turnably received in that portion of the opening 18 intermediate the upper edge 27 of the bar 21 and the adjacent edge 28 of the frame.

The bar 23 and the nut 26 are arranged so that one face of the nut will bear on the adjacent edge 27 of the bar 21. The opposite faces of the nut 26 are normally maintained in tight frictional engagement with the adjacent edges 27 and 28 by the action of a spring member 29 which is mounted adjacent one end thereof on the frame portion 12, as by means of a screw 30 and extends therefrom rearwardly of the gun through an opening 31 provided in the frame.

The spring member 29 has an angulated, generally V-shaped portion 32 arranged to receive the lower edge 33 of the bar 21, as shown in Fig. 3, and acts normally to urge the bar up-

wardly to cause the upper face of the adjusting nut 26 to bear against the edge 28 of the frame and to maintain the opposite faces of the nut in tight frictional engagement with the adjacent edges 27 and 28. The opening 18, the slits 19, the outstruck portions 20, the nut 26, the bar 21, and the spring member 29 are conformed and arranged so that the spring member will act normally to cause frictional engagement between adjacent surfaces of the bar 21 and the frame portion 17, thus restricting movement of the bar in a direction longitudinally thereof simultaneously with the restriction of movement of the nut 26 in the manner stated. If desired, the edge 28 may be a knife edge and the opposite faces of the nut 26 may be corrugated or otherwise roughened as by providing radial corrugations therein for cooperation with the adjacent edges 27 and 28 and the lower edge of the bar 21 may have corrugations therein for cooperation with the portion 32, as by extending the scale marks 35, which are provided on the face thereof to cooperate with the index point 36 provided on the spring member 29.

A knurled end portion 34 is provided on the spring member 29 remote from the screw 30 to facilitate manipulation of the spring member downwardly for the purpose of simultaneously releasing the bar 21 and the nut 26 from the action of the spring. A finger piece, groove or roughened surface 37 may be provided on the bar 21 to facilitate adjustment thereof when the spring member 29 is thus released.

The frame 17, the bar 21, the bar 23, and the spring member 29 may be of heat treated steel or other suitable material.

The described arrangement provides an economical and efficient device for use on a gun requiring ready, accurate adjustment of a peep-sight in two directions at right angles to each other.

In a modified form of the invention shown in Fig. 5 the supporting frame is shown as mounted on the tang 38, for which purpose the bracket portion 41 is dispensed with and the angular portion 39 is secured directly to the tang as by means of the screws 40.

Changes may be made in the form, construction and arrangement of the parts without departing from the spirit of the invention, and the right is hereby reserved to make all such changes as fairly fall within the scope of the following claims.

The invention is hereby claimed as follows:

1. A gunsight assembly comprising a supporting frame, a manually movable member, the frame having a generally central opening and means thereon for mounting the movable member in slidable relation with the frame, a gunsight mounted on the member and movable with the movable member, means embodying an element operating in said opening and operable to move the gunsight in a direction at an angle to the movable member, and spring means mounted on the frame and cooperating with the member adjustably to secure the gunsight in a selected position of adjustment.

2. A gunsight assembly comprising a supporting frame, a gunsight mounted on the frame for movement in horizontal and vertical directions, means operable adjustably to move the gunsight in one of said directions and including a manually movable member mounted on the frame for slidable movement in generally parallel relation to the frame and operatively connected

with the gunsight to cause movement of the gunsight corresponding to the movement of the member, means operable adjustably to move the gunsight in another of the said directions including means adjustably mounted on the frame and the member, and means operable adjustably to secure the gunsight in a selected position of adjustment including a spring member mounted on the frame and arranged to operate normally to engage a portion of the movable member whereby to restrict movement of the member and the gunsight in one of the said directions and to urge the member in the other direction, and means cooperating with said member when moved in the last said direction, to restrict operation of the said member and the correlative movement of the gunsight in the other of the said directions.

3. Gunsight mechanism comprising a plate, integral strap means struck from the plate, a bar mounted slidably on the plate and supported by said strap means, a sight piece on the bar and movable therewith, and adjustable means to move the sight piece at an angle to the slidable movement of the bar.

4. Gunsight mechanism comprising a plate, integral strap means struck from the plate, a bar mounted slidably on the plate and supported by said strap means, a sight piece on the bar and movable therewith, adjustable means to move the sight piece at an angle to the slidable movement of the bar, and spring means to hold the parts in selected adjusted position.

5. Gunsight mechanism comprising a plate, integral strap means struck from the plate, a bar mounted slidably on the plate and supported by said strap means, a sight piece on the bar and movable therewith, adjustable means to move the sight piece at an angle to the slidable movement of the bar, and spring means to hold the parts in selected adjusted position, said last named means including a sharp edge engageable with the bar.

6. A gunsight comprising a plate having integral lugs struck from a face thereof, a bar adjustably slidable across the face of the plate and guided by the lugs, means for holding the bar in adjusted position, a sight piece movable with the bar, and means for adjusting the sight piece at an angle to the slidable movement of the bar.

7. A gunsight comprising a plate having integral lugs struck from a face thereof, a bar adjustably slidable across the face of the plate and guided by the lugs, means for holding the bar in adjusted position, a sight piece movable with the bar, and means embodying an adjusting element co-operating with the plate and bar to effect adjustment of the sight piece at an angle with respect to the slidable movement of the bar.

8. A gunsight comprising a mounting, a plate supported by the mounting, integral straps struck from a face of the plate, a laterally movable bar guided by said straps, a sight piece movable laterally with the bar, and means for adjusting the sight piece vertically.

9. A gunsight comprising a mounting, a plate supported by the mounting, integral straps struck from a face of the plate, a bar engaging a face of said plate and guided by the straps, said bar being movable laterally to compensate for wind deflection, a sight piece movable laterally with lateral movement of the bar, and means to adjust the sight piece vertically to compensate for range distance variations.

10. A gunsight comprising a mounting, a plate

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supported by the mounting, integral straps struck from a face of the plate, a bar engaging a face of said plate and guided by the straps, said bar being movable laterally to compensate for wind deflection, a sight piece movable laterally with lateral movement of the bar, a stem fixed to the sight piece, and a nut arranged between the bar and a part of the plate and threadedly engaging the stem to adjust vertically the sight piece to compensate for range distance variations.

11. A gunsight comprising a support, integral portions struck out from the support and forming guide means, a bar slidably mounted in the guide means, means for locking the bar to prevent slidable movement thereof, a sight piece

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mounted for movement with slidable movement of the bar, and means for raising the sight piece vertically.

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