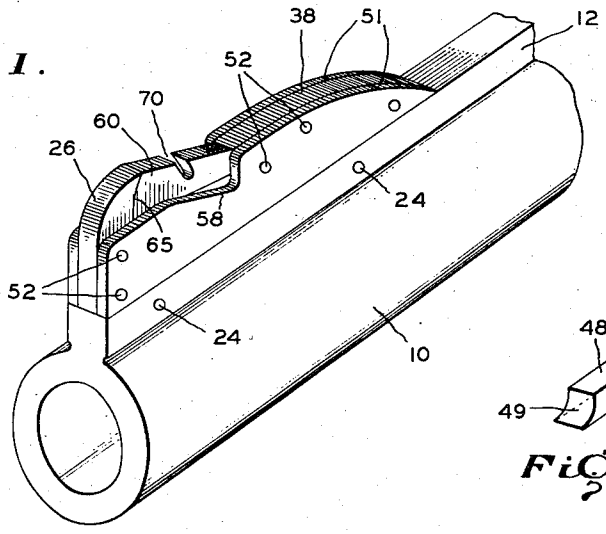
April 16, 1957 J. POKORNY 2,788,600

GUN-SIGHT MECHANISM

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FIG. 1.



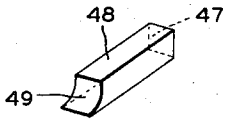
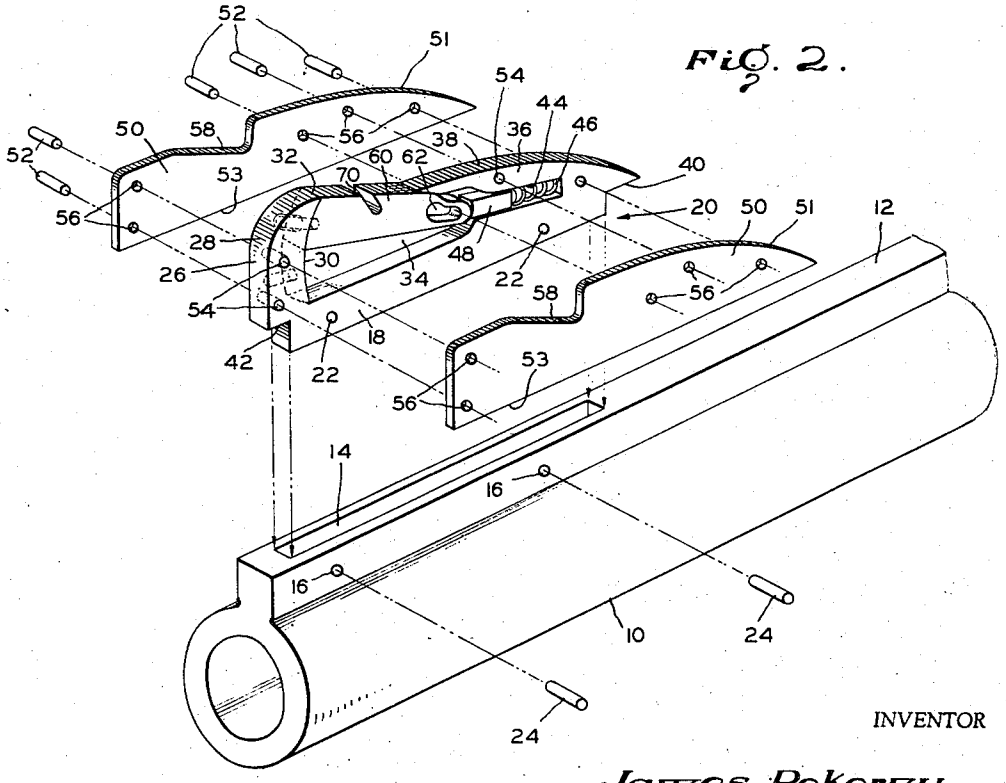


FIG. 2a.

FIG. 2.



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GUN-SIGHT MECHANISM

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FIG. 3.

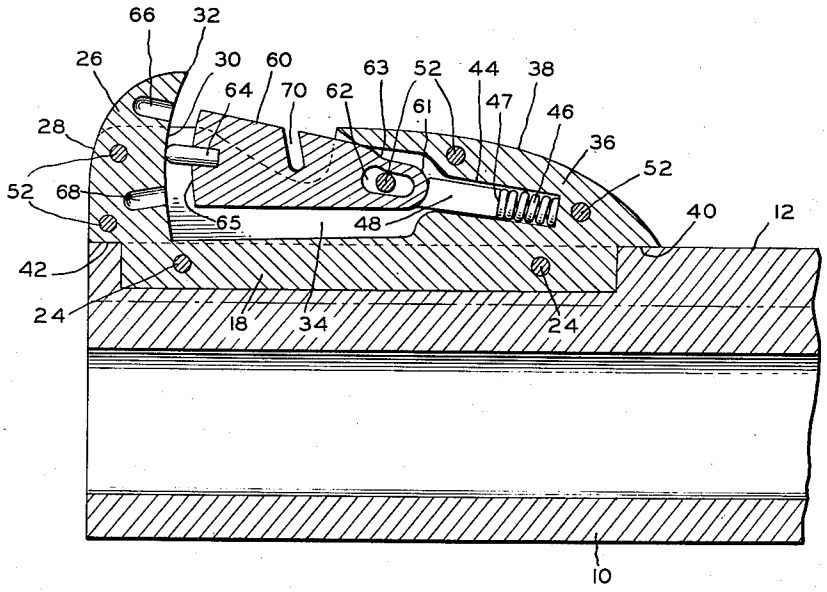
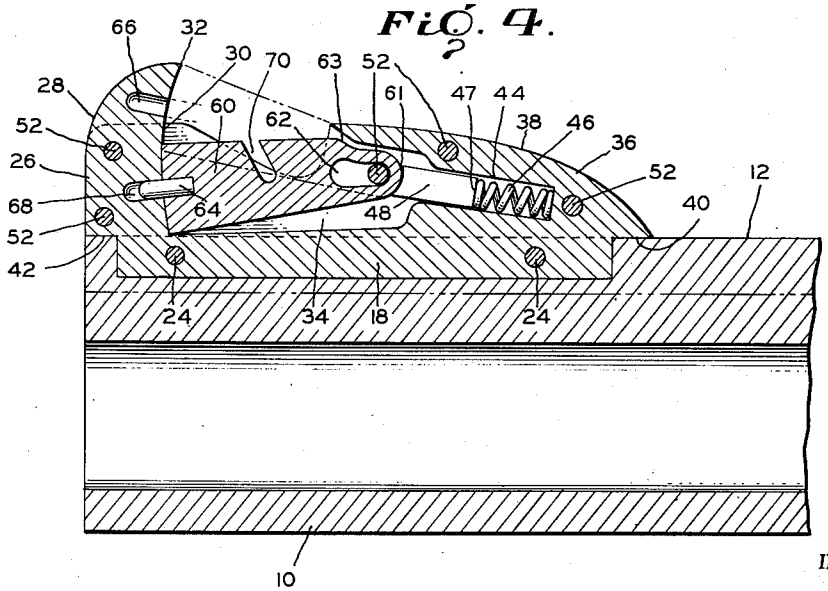


FIG. 4.



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GUN-SIGHT MECHANISM

James Pokorny, Grants Pass, Oreg.

Application May 27, 1955, Serial No. 511,668

9 Claims. (Cl. 42—1)

This invention relates to gun sights, and it particularly relates to gun sights having adjustable means for preventing entangling or snagging of the sight when the gun is held in a holster or pocket.

True target sights on pistols, rifles or the like, are generally undercut, that is, they are formed convex on the outer side and concave on the inner side with the two sides converging in a rather sharp point. The sights are undercut or concaved in order to minimize reflection of light into the eyes of the shooter; they are also provided with sharp corners and edges in order to present a clear and sharp picture to the shooter. However, this undercutting and sharp edging tends to snag the barrel of the gun when it is inserted into a holding means such as a holster or a pocket. As a result, either the holder is torn, the gun sight is damaged, or both occur.

It is an object of the present invention to provide a gun sight which is adapted to provide all the light reflection prevention and sharpness of objectivity of the ordinary true gun sight while, at the same time, eliminating all possibilities of snagging in a holster or the like.

Another object of the present invention is to provide a gun sight which is easily adjusted from a shooting position to a holstered position.

Another object of the present invention is to provide a non-snagging gun sight which can easily be installed on any ordinary gun.

Other objects of the present invention are to provide an improved gun sight, of the character described, that is easily and economically produced, which is sturdy in construction, and which is highly efficient in operation.

With the above and related objects in view, this invention consists in the details of construction and combination of parts, as will be more fully understood from the following description, when read in conjunction with the accompanying drawings in which:

Fig. 1 is a perspective view of a gun sight embodying the present invention, shown mounted on the end of a gun barrel.

Fig. 2 is an exploded view of the device shown in Fig. 1.

Fig. 2–*a* is a perspective view of the plunger used in the device.

Fig. 3 is an enlarged, longitudinal, cross-sectional view of the device of Fig. 1, showing the sight in intermediate position.

Fig. 4 is a view similar to Fig. 3, but showing the sight in ready position for use.

Referring now in greater detail to the drawings wherein similar reference characters refer to similar parts, there is shown a gun barrel **10** having an upwardly extending rib **12**. The fore portion of the rib **12** is provided with a longitudinal groove **14** which is intersected by a pair of drilled holes **16**.

Fitting within the groove **14** is the downwardly extending flange **18** of a gun sight assembly **20**. The flange **18** is provided with openings **22** which mate with openings **16** to receive appropriate locking pins **24**.

The assembly **20** comprises a sight blade **26** which consists of an upstanding portion having a convex front surface **28**, a concave rear surface **30**, and a sharp pointed apex **32** between the front and rear surfaces.

Longitudinally spaced from the sight blade **26**, as by a groove **34**, is a ramp portion **36**. The ramp **36** is provided with a convexly curved upper surface **38** which terminates at **40** in common plane with the bottom edge **42** of the blades **26**. A bore **44** extends through the front face of the ramp **36** and in this bore is positioned a spring **46** bearing against the rear end **47** of a plunger **48** square in cross-section and curved forwardly and downwardly at its front face **49**.

A pair of plates **50**, each having a curved top rear portion **51** and a flat bottom edge **53**, are positioned on either side of the sight assembly **20**. The bottom edges **53** of the plates **50** lie flush on the rib **12** at either side of the groove **14**, and the plates, themselves, are connected to the sight assembly by means of pins **52** fitting through aligned openings **54** in the assembly and **56** in the plates **50**. Notches **58** are provided in the upper surface of each plate **50**.

Positioned within the groove **34** is a blade or adaptor **60** having a curved elongated slot **62** at the end adjacent the plunger **48**. This end of the blade or adaptor **60** is rounded at its tip **61** to cooperate with plunger face **49** and the upper surface **63** adjacent the tip **61** is contoured to complement the curved contour of the adjacent portion of the ramp **36**. One of the pins **52** extends through the slot **62** to pivotally connect the blade or adaptor **60** to the remainder of the assembly. The elongated, curved configuration of the slot **62** provides a lost motion connection at this point. The blade **60** tapers outwardly from the rear end **61** and the front end **65** is, therefore, somewhat wider than the rear end. This wider front end **65** is provided with an outwardly and forwardly extending pin **64** in its front face; and this pin **64** is adapted to seat within either of two grooves **66** and **68** in the inner, concave rear face **30** of the sight blade **26**. A notch **70** extends downwardly from the top surface of blade **60**, this notch **70** being adapted to be engaged by a finger nail or knife blade for moving the blade **60** against spring tension **46**. The notches **58** in the side plates **50** permit the finger or knife blade to be readily inserted. As will be observed, all the top surfaces of ramp **36**, of plate **50** and blade **60** are serrated or otherwise treated to reduce reflection of light.

In operation, the blade or adaptor **60** can be lowered on its lost motion pivot **52** and slot **62** to expose the undercut side of the fixed sight blade **26**. In this lowermost position, as shown in Fig. 4, the pin **64** is inserted in slot **68** and is held there by the spring-pressed plunger **48**. In this position, the sight **32** is clear and sharp to the view, and the gun is suitable for accurate shooting. When the gun is to be holstered, a knife blade or finger nail is inserted in slot **70** and the blade **60** is pushed back against the pressure of the spring **46** until the pin **64** clear the slot **68**. Thereafter, the blade or adaptor can be lifted until the pin **64** snaps into a slot **66** under pressure of the spring **46**. In this position, as shown in Fig. 1, the blade or adaptor **60** forms a continuation of ramp **36** and sight blade **26** so that a substantially smooth contour is provided which is relatively free of sharp edges which might tend to snag when holstered. To lower the blade or adaptor **60**, the blade or adaptor is again pushed backwards against the pressure of the spring-pressed plunger and is then lowered until the pin **64** snaps into groove **68**.

Although this invention has been described in considerable details, such description is intended as being illustrative rather than limiting, since the invention may be

variously embodied, and the scope of the invention is to be determined as claimed.

Having thus set forth and disclosed the nature of this invention, what is claimed is:

1. A gun assembly including a gun barrel having a sight device comprising a pointed sight blade having a concave rear surface, a vertically movable adaptor positioned on said barrel adjacent said sight blade, said adaptor having an upper surface which, when the adaptor is moved to its uppermost position, forms a gradually inclined surface forming a continuation of the pointed portion of said sight blade.

2. The gun assembly of claim 1 wherein said adaptor is mounted on said gun barrel with a lost motion pivotal connection, and a spring-pressed plunger on said gun barrel urging said adaptor toward said sight blade.

3. The gun barrel assembly of claim 2 wherein said adaptor is provided with a front surface having a contour complementary to the concave contour of the rear surface of said sight blade, a pair of spaced apart grooves in said rear surface of said sight blade, and a forwardly extending pin on the front surface of said adaptor, said pin being adapted to extend into each of said grooves upon a predetermined pivotal movement of said adaptor.

4. In a gun barrel assembly including a gun barrel, an upstanding rib on said barrel, a gun sight base having a downwardly extending flange inserted in a longitudinal groove in said rib, a sight blade on one end of said base, said sight blade having a concave rear surface extending downwardly from a pointed apex, a ramp on the opposite end of said base, said ramp having a gradually convexly curved upper surface, a ramp blade pivotally mounted, with a longitudinal lost motion connection, between said sight blade and said ramp, the pivot point being adjacent said ramp, means urging said ramp blade toward said sight blade, said ramp blade having a front surface complementary to the rear surface of said sight blade, means

for resiliently locking said ramp blade in either of two predetermined positions against said sight blade, said ramp blade forming a substantially continuous surface between the point of said sight blade and said ramp when said ramp blade is in one of said predetermined positions, and forming a discontinuous surface between the point of said sight blade and said ramp when in the other of said predetermined positions.

5. The gun barrel assembly of claim 4 wherein said base is releasably held on said gun barrel by releasable coupling pins.

6. The gun barrel assembly of claim 4 wherein a pair of guard plates are positioned on said gun barrel on each side of said base and its attached components.

7. The gun barrel assembly of claim 4 wherein a pair of guard plates are positioned on said rib on each side of said base, said plates extending upwardly adjacent said sight blade, ramp blade and ramp, said ramp blade being pivotally connected to said guard plates, and a notch on the upper surface of each of said guard plates.

8. The gun barrel assembly of claim 4 wherein said means urging said ramp blade toward said sight blade comprises a spring-pressed plunger positioned within a bore in the front face of said ramp.

9. The gun barrel assembly of claim 4 wherein said ramp blade is provided with a notch in the top surface thereof for cooperation with a means for moving said ramp blade against said urging means.

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