Oct. 15, 1957 G. A. MARTINEK 2,809,433

GUN SIGHTS AND THE COMBINATION THEREOF WITH A SLEEVE

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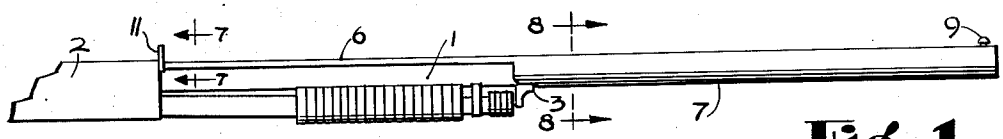



Fig. 1

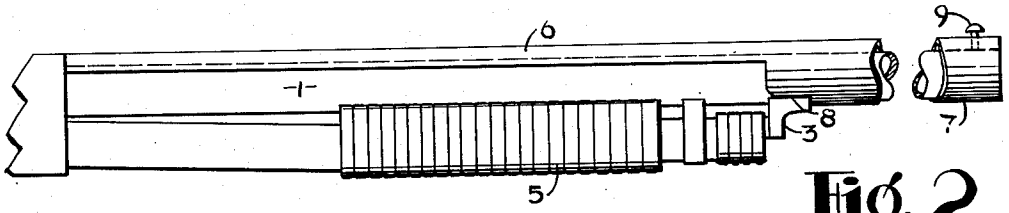



Fig. 2

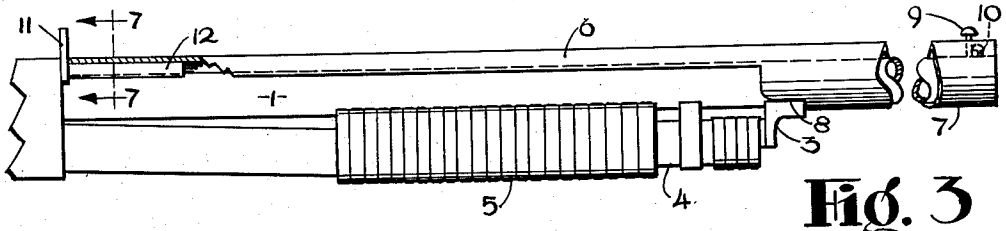



Fig. 3




Fig. 4

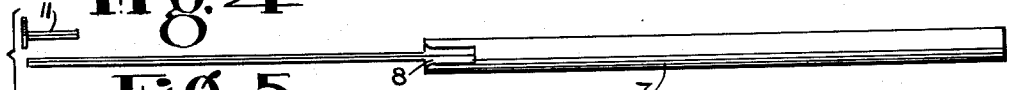



Fig. 5

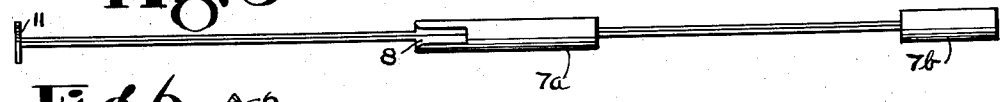



Fig. 6

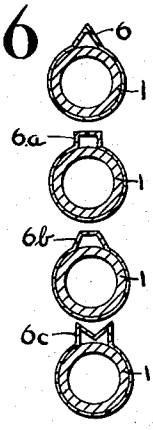



Fig. 8

Fig. 9

Fig. 10

Fig. 11

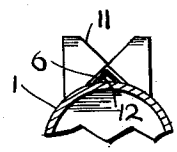



Fig. 7

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# GUN SIGHTS AND THE COMBINATION THEREOF WITH A SLEEVE

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7 Claims. (Cl. 33—47)

My invention relates to gun sights and more particularly to a gun sight for single barrel shot guns that may be easily applied to and removed from the barrel of the gun.

In rib sights which have heretofore been applied to guns, it has been the practice to either form the sight as an integral portion of the gun or to provide extraneous means on the gun to which the rib sight is secured. The addition of extraneous means to guns are of course costly to provide and in such constructions, considerable time is required to fasten the gun sight in place.

It is the aim of the present invention to provide an improved sight for guns of the single barrel type that is inexpensive to construct and which may be easily and quickly applied to and removed from the barrel of the gun. My improved sight is so designed that when applied to a gun, it may be maintained in a definite position to provide a direct true line sight and is either free to move with the barrel of the gun when the metal of the barrel expands during firing or the sight may be so applied that the metal forming the barrel of the gun is free to move relative to the sight when it expands. In the preferred form of the invention, the sight includes a sleeve which protects the barrel of the gun from being scratched, nicked, or the like, and also protects the hunter from possible injury in the event of an accidental blow out of the barrel during firing. By use of the improved sight of the present invention, a light coat of oil or grease may be applied to the barrel of the gun to protect the metal of the barrel from oxidation and the sleeve associated with the rib sight prevents the oil from being displaced during handling of the gun. In accordance with the present invention, a rear sight may also be provided which if desired may be formed integral with or welded or otherwise secured to the rib sight or it may be formed separately from the rib sight and inserted in place when desired.

It is therefore an object of the present invention to provide an improved rib sight for single barrel shot guns which may be easily applied to and removed from the barrel of the gun and which when applied to the barrel of the gun will provide a true line from the stock of the gun to the bead sight.

Another object of the invention is to provide an improved rib sight for guns including a rear sight which may be formed integral with or permanently secured in any desired manner to the rib sight or which may be formed as a separate piece and which may be easily inserted in place when desired.

A further object of the invention is to provide an improved rib sight for guns of the single barrel type which is held against rotative movement and which may be applied to the barrel of the gun in such a manner that it may move with the barrel of the gun during expansion of the barrel when the gun is fired.

A still further object of the invention is to provide an improved rib sight for guns in combination with a sleeve which is mounted in cooperative relation with a portion of the gun to hold the rib sight in place and



which protects the barrel of the gun from accidental damage and also prevents oil or grease applied to the barrel of the gun from being displaced.

My invention will be better understood by reference to the accompanying drawings in which:

Fig. 1 is a side elevational view of a single barrel shot gun with my improved rib sight and barrel protector applied thereto;

Fig. 2 is an enlarged side elevational view similar to that shown in Fig. 1 with portions broken away intermediate the ends of the barrel of the gun and with the back sight omitted;

Fig. 3 is a view similar to that shown in Fig. 2 with parts in section in which the rear sight is shown separately from the rib sight;

Fig. 4 is a bottom plan view of the rib and protective sleeve shown in Fig. 1 removed from the gun and with the parts shown at an angle of 90° to that shown in Fig. 1;

Fig. 5 is a view similar to that shown in Fig. 4 with the exception that the rear sight is shown as being separable from the rib sight;

Fig. 6 is a modified form of my improved rib sight showing means integral therewith for attaching it to a single barrel shot gun;

Fig. 7 is a cross sectional view taken on a plane passing through the line 7—7 of Figs. 1 and 3, looking in the direction of the arrows;

Fig. 8 is a cross sectional view taken on a plane passing through the line 8—8 of Fig. 1; and

Figs. 9, 10 and 11 are cross sectional views, each of which shows a modified form of the rib sight.

While the gun sight of the present invention may be applied to a single barrel shot gun of any desired type and of any desired guage, for purposes of illustration, a commercial gun of a well known type is shown in the drawings having a barrel **1** extending from the stock **2** in which a break off occurs between the stock and the barrel and the barrel is provided with a downwardly extending bracket **3** which forms a support for one end of the tube **4** on which the pump **5** slides.

According to one form of my invention, an improved sight is provided which includes a rib **6** which extends from substantially the stock of the gun to the front end of the barrel and in which means are provided to maintain the rib sight in a true line position. As illustrated in Fig. 1 of the drawings, the rib sight is provided with a sleeve **7** which surrounds the barrel and means are provided to maintain the sleeve firmly in place. For this purpose, the sleeve is provided with a notch **8**, the opposite edges of which engage the opposite sides of the bracket **3**. To provide additional means for holding the rib sight in place, the headed screw **9** which forms the bead sight of the gun may be removed from the gun and inserted through a threaded opening in the rib **6**, the shank of which is threaded in the usual opening at the free end of the barrel, or if desired, the threaded shank of the screw, the head of which forms the bead sight of the gun in my improved sight may be threaded through an opening at a point in proximity to the free end of the usual bead sight with its threaded end arranged adjacent to the threaded screw **10** forming the bead sight of the gun, as illustrated more particularly in Fig. 3 of the drawing.

It will of course be understood that during firing, the barrel of the gun is heated to a temperature which is higher than the temperature of the sleeve. If the screw **9**, the head of which forms the bead sight of the gun is threaded into the barrel of the gun, when the barrel of the gun expands, the bead sight and the end of the sleeve are free to move forward with the expansion of the metal forming the barrel of the gun and will of

course return to their original positions when the barrel of the gun cools. When the shank of screw **9** is arranged rearwardly of the screw **10**, the barrel of the gun is free to expand to a greater degree than the sleeve without in any manner affecting the position of the rib sight.

For certain purposes, such as for shooting deer and particularly when slugs are utilized, it is desirable to provide a rear sight **11** in addition to the bead sight. The rear sight may be of any desirable shape. For instance, it may be substantially circular or tubular in shape or it may be substantially angular in shape and provided with a V-shaped groove as shown in the drawings. The rear sight may be formed integral with the rib sight or it may be provided with a V-shaped arm **12** welded or otherwise secured thereto as shown in Figs. 1 and 4, or the rear sight and the V-shaped arm may be formed separately from the rib sight and the arm of the rear sight may be inserted in the V-shaped groove of the rib sight as shown in Figs. 3 and 5.

As previously stated, the rear sight **11** is used principally to provide a rifle-aiming effect when utilized for special hunting, such as when hunting for deer, and may of course be omitted when the gun is utilized for other purposes as shown in Fig. 2. In the construction shown in Fig. 2, one end of the rib sight engages the stock of the gun and the rib sight provides a true line from the stock of the gun to the bead sight.

The rib sight may be of any suitable form that provides a true-line from the stock of the barrel to the bead sight. It may, for instance, be V-shaped as shown in Figs. 1 to 8, or it may be of any other suitable shape. For instance, the sleeve may terminate in a substantially rectangular-shaped rib as shown in Fig. 9, or the sides of the sleeve may first converge upwardly at an angle and terminate in a substantially flat surface as shown in Fig. 10, or the sleeve may be provided with upwardly extending sides which terminate in an inclined V-shaped groove as shown in Fig. 11. When utilizing one of the rib sights as shown in Figs. 9 to 11, it will of course be understood that the arm on the rear sight, when used, will conform to the shape of the groove and may be welded to the rib sight or may be shaped to fit within the groove or grooves formed by the rib sight.

The rib and sleeve portion of the present invention may be formed of any desirable material, such as metal, fiber glass, or plastic, and may be painted any desired color. For instance, the rib and sleeve may be painted blue for general use to blend with the metal of which the barrel is formed. Because the rib and sleeve assembly may be constructed at low cost, each hunter may be provided with several of the assemblies, each of which may be utilized for a different purpose. For instance, when hunting ducks or geese, the assembly may be painted brown to blend with marsh grass. The assembly when thus painted does not have as much light reflectivity as the metal of the barrel of the gun and therefore does not serve as a warning to the ducks or geese that a hunter may be present. For deer hunting, the assembly may be painted red to provide protection for the hunter in woods or forests. When formed of plastic material, the rear sight may be molded integral with the rib sight or a separate piece may be molded in the form of the rear sight and a projecting arm as shown in Fig. 5.

Another modification of my invention is shown in Fig. 6 of the drawings. This modification is similar to that shown in Figs. 1 to 5 with the exception that the sleeve does not extend the full length of the barrel but consists of two spaced portions *7a* and *7b*, the rear portion *7a* having a notch therein to receive the bracket **3** on the gun to prevent relative movement of the bead sight and the front portion in combination with the rear portion being effective in maintaining the rib sight in place.



What I claim is:

1. In a single barrel shotgun including a barrel and a bracket extending downwardly from the lower portion of the barrel at a substantial distance from the free end of the barrel, a combined sleeve and rib sight mounted upon said barrel, said rib sight being formed integral with the upper portion of said sleeve and extending upwardly from said sleeve and barrel, and said sleeve being arranged to surround and rest on said barrel and being of sufficient length to extend a substantial distance forwardly from said bracket and a substantial distance rearwardly from the free end of the barrel, and the lower rear end portion of said sleeve being provided with a slot and side edges bordering the slot which side edges are spaced apart at a distance sufficient to enable the sleeve to slide over the bracket with the opposite edges of the sleeve adjacent the slot being in engagement with the opposite sides of the bracket for preventing rotation of said rib sight and sleeve on said barrel.

2. In a single barrel shot gun including a gun stock and a barrel with a break off between the stock and the barrel and a bracket extending downwardly from the lower portion of the barrel at a substantial distance from the free end of the barrel, a combined rib sight and sleeve for said barrel, said rib sight being integral with said sleeve and being slidable with said sleeve on said barrel to a position in which the rear end of the rib sight engages the stock of said gun at the break off between the stock and the barrel and said sleeve being arranged to surround and rest upon said barrel and being of sufficient length to extend a substantial distance forwardly from said bracket and a substantial distance rearwardly of the free end of the barrel, and the lower rear end portion of said sleeve being provided with a slot and oppositely disposed edges bordering said slot which edges slidingly engage the opposite sides of the bracket when the sleeve and the rib sight are slid rearwardly upon the barrel to a position in which the rib sight engages the stock of said barrel to thereby prevent rotative movement of said sleeve and rib sight on said barrel.

3. In a single barrel shot gun provided with a stock and a barrel with a break off between said stock and barrel providing a shoulder and a bracket extending downwardly from said barrel at a substantial distance from its free end, a combined gun sight and sleeve, said gun sight including a rear sight engaging said shoulder and a rib sight integral with said sleeve and being slidable with said sleeve on said barrel to a position in which the rib sight extends from the rear sight to the front end of the barrel and said sleeve being arranged to surround and rest upon said barrel and being of sufficient length to extend a substantial distance forwardly from said bracket and a substantial distance rearwardly of the free end of the barrel, and the lower rear end portion of said sleeve being provided with a slot and oppositely disposed edges bordering said slot which edges slidingly engage the opposite sides of the bracket when the sleeve and the rib sight are slid rearwardly upon the barrel to thereby prevent rotative movement of said sleeve and rib sight on said barrel.

4. Apparatus as defined in claim 3 in which the rear sight is integral with the rib sight.

5. In a single barrel shot gun including a barrel and a bracket secured to the lower portion of the barrel at a substantial distance from its free end, a combined rib sight and sleeve mounted on said barrel, said rib sight being integral with the upper portion of said sleeve and extending upwardly therefrom and said sleeve being arranged to surround and rest upon said barrel and the rear end portion of said sleeve being provided with a slot and side edges bordering said slot which side edges are spaced a sufficient distance apart to enable said sleeve to slide over the bracket when the rib and sleeve are slid on said barrel to a position in which the opposite edges of the sleeve adjacent the slot are in engagement with the

opposite sides of the bracket and said sleeve being of sufficient length to extend from a position in which the side edges of the sleeve adjacent said slot engage the opposite sides of the bracket to the forward end of said barrel.

6. In a single barrel shot gun having a gun stock and a barrel with a break off between the stock and the barrel providing a shoulder and a bracket secured to the bottom portion of the barrel at a distance approximately midway between the front and rear ends of the barrel, a combined rib sight and sleeve, said rib sight being integral with said sleeve and extending from the front end of said barrel to substantially the stock of said gun and the upper portion of said rib sight being spaced from the barrel of the gun to provide a groove between said barrel and the upper portion of the rib sight, a rear sight having an arm extending into the groove between said barrel and rib sight and a portion extending upwardly beyond the rib sight and the stock of the barrel which upwardly extending portion engages the shoulder formed at the break off between the stock and the barrel of the gun and is held in position by the rear end of said rib sight, and said sleeve being arranged to surround and rest upon said barrel and the rear end portion of said sleeve being provide with a slot and side edges bordering said slot which side edges are spaced at a sufficient distance apart to enable said sleeve to slide over the bracket when the rib sight and sleeve are slid on said barrel to a position in which the opposite edges of the sleeve adjacent the slot are in engagement with the opposite sides of the bracket and said sleeve being of sufficient length to extend from a position in which the side edges of said slot engage the opposite sides of the bracket to the forward end of said barrel.

7. In a single barrel shot gun having a gun stock and a barrel with a break off between the stock and the barrel forming a shoulder, a bracket secured to the lower portion of the barrel substantially midway between the ends of the barrel and a bead sight, a combined rib sight and sleeve, said rib sight being integral with said sleeve and extending from the front end of said barrel to substantially the stock of said gun and the upper portion of said rib sight being spaced from the barrel of the gun to provide a groove between said barrel and the upper portion of the rib sight into which the bead sight of the gun extends, a rear sight for said gun having an arm extending into the groove between said barrel and rib sight and a portion extending upwardly beyond the rib sight and the stock of the barrel which upwardly extending portion of the rear sight engages the shoulder formed at the break off between the stock and the barrel of the gun and is held in position by the rear end of said rib sight and said rib sight being provided with a threaded opening at its forward end in which a threaded bead sight is secured which extends rearwardly and in close proximity to the bead sight on the barrel of the gun to prevent forward movement of said rib sight, and said sleeve being arranged to surround and rest upon said barrel and the rear end portion of said sleeve being provided with a slot and side edges bordering said slot which side edges are spaced at a sufficient distance apart to enable said sleeve to slidingly engage the bracket when the rib and sleeve are slid on said barrel to a position in which the opposite edges of the sleeve adjacent the slot are in engagement with the opposite sides of the bracket and said sleeve being of sufficient length to extend from a position in which the side edges of said sleeve adjacent said slot engage the opposite sides of the bracket to the forward end of said barrel.



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