

H. J. & T. T. WISE.
GUN SIGHT.

APPLICATION FILED NOV. 27, 1906.

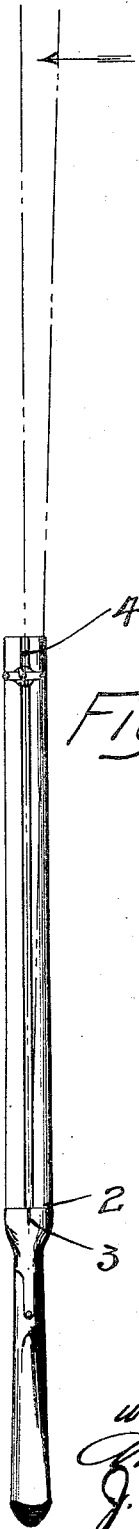


Fig. 1.

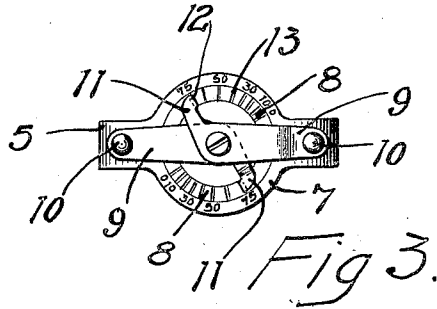


Fig. 3.

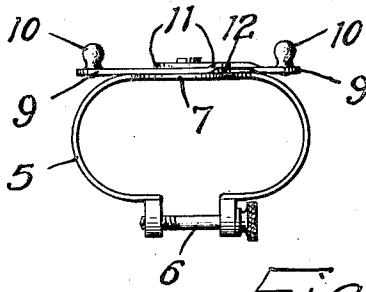


Fig. 4.

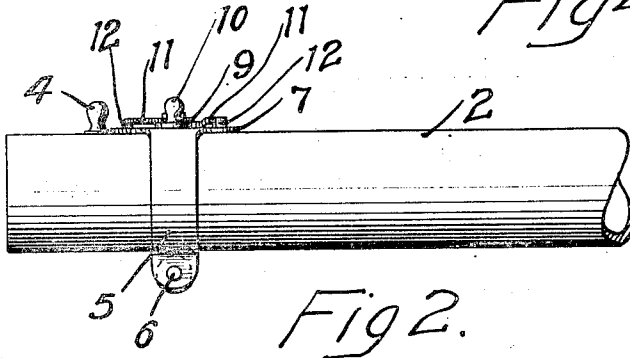


Fig. 2.

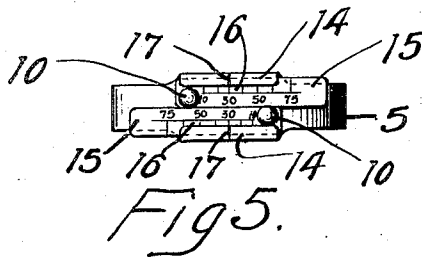


Fig. 5.

WITNESSES
J. B. E. [Signature]
 J. B. E. [Signature]

INVENTORS
 HARRY J. WISE
 THOMAS T. WISE
 BY *Paul Paul*
 THEIR ATTORNEYS

UNITED STATES PATENT OFFICE.

HARRY J. WISE AND THOMAS T. WISE, OF WAYZATA, MINNESOTA.

GUN-SIGHT.

No. 846,173.

Specification of Letters Patent.

Patented March 5, 1907.

Application filed November 27, 1906. Serial No. 345,362.

To all whom it may concern:

Be it known that we, HARRY J. WISE and THOMAS T. WISE, both of Wayzata, Hennepin county, Minnesota, have invented certain new and useful Improvements in Gun-Sights, of which the following is a specification.

Our invention relates to gun-sights, and is designed particularly for use on shot-guns, but is capable of use on rifles and cannon of any caliber.

The object of the invention is to provide means whereby a hunter or gunner can accurately determine the proper lead when firing a cross-shot at a bird or other moving object.

The invention consists generally in an adjustable side sight.

Further, the invention consists in various constructions and combinations, all as hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of a shotgun with our invention applied thereto. Fig. 2 is a side view of the muzzle of the gun, showing the position of the adjustable side sight thereon. Fig. 3 is a top view of the sight removed from the gun. Fig. 4 is a side view of the same. Fig. 5 is a top view of a modified construction.

In the drawings, 2 represents a double-barrel shotgun of ordinary construction having the usual rear sight 3 and forward sight 4. In firing a cross-shot at a moving object the hunter is of course compelled to aim his gun in advance of the object fired at, the distance or "lead," as it is called, depending upon the speed of the object and its distance from the muzzle of the gun. Expert hunters usually do aim with the proper lead; but even after years of experience a hunter will miss an easy shot simply because he has not given the proper lead to his gun to make the shot successful. To obviate this difficulty and to accurately determine the proper lead for the gun, we provide an adjustable side sight, mounted, preferably, on the barrel near the muzzle and capable of movement laterally to adapt it for the different speeds of the moving object.

Our invention is preferably embodied in the device shown in the drawing, which consists in providing a clamp 5, adapted to encircle both barrels of the gun, as shown, and having a clamping-screw 6. A flattened

disk-like plate 7 is formed on the top of the device, that is centered upon the barrels and is provided with a scale 8, graduated to represent in miles the approximate speed of the moving object. The proper position of the graduations can be easily and accurately determined.

Centrally pivoted on the plate 7 are arms 9, having sights 10 at their outer ends and adapted to swing back and forth over the graduated scale. Extensions 11 are provided on said arms, forming pointers that move back and forth over the scale and are adjusted thereon opposite the figures of the scale representing the speed of the object. These pointers have downwardly-turned lugs or ends 12, that engage depressions 13, provided in the upper surface of the plate and prevent the arms from accidentally swinging out of position when adjusted. The extensions may have sufficient spring or tension so that when moved back and forth over the depressions they will have a ratchet-like action and allow the convenient adjustment of the arms, but positively prevent premature movement thereof.

To use the device, the hunter will first determine approximately the speed of the object, then swing one of the arms so that the pointer will be opposite the figure representing such speed. Then when the gun is aimed the hunter will sight over the rear sight of the gun and the side sight 10, that has been adjusted until the sights are in line with the bird or other object. At that time the angle formed between the line of the sights with the bird and the extension of the line between the rear and forward sights of the gun will represent the proper lead, and the shot will be successful.

In Fig. 5 we have shown a modified construction, which consists in providing guides 14 between which plates 15 are slidable, said plates having a scale 16 corresponding to the one described that is moved with the plates back and forth opposite a mark 17 on the guides. The sights, corresponding to those shown in Fig. 3, are mounted on the plates and the proper lead of the gun is determined in precisely the same manner, the only difference being that the arms are moved lengthwise, sliding between the guides instead of swinging in a rotary direction over the circular scale.

This invention while shown applied to a double-barrel shotgun is equally applicable

to a single-barrel gun and is also capable of use on the guns of warships, floating batteries of all kinds, forts, and field artillery.

We claim as our invention—

- 5 1. A firearm-barrel having forward and rear sights and a side sight provided with a scale representing the speed of a moving object, said side sight being capable of adjustment on said scale according to the speed of
10 the object, whereby when said side sight intersects the line of vision between the rear sight and the object, the angle formed between said line and a straight line, between the rear and front sights, extended, will represent the proper lead.
- 15 2. The combination, with a gun-barrel, of a clamp secured thereon and provided with a

disk or plate near the muzzle of the barrel, said disk having a scale thereon graduated to indicate miles and said barrel having forward and rear sights and a side sight mounted on said plate and movable over said scale, whereby when the sight is set on the scale for the approximate speed of a moving object and is in line with the object and the rear sight, the
20 gun-barrel will have the proper lead, substantially as described.

In witness whereof we have hereunto set our hands this 21st day of November, 1906.

HARRY J. WISE.
THOMAS T. WISE.

Witnesses:

RICHARD PAUL,
J. B. ERA.