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Draftsman

W. BENNETT.

ADJUSTABLE WIND GAGE REAR SIGHT FOR SMALL ARMS.

APPLICATION FILED DEC. 28, 1908.

922,077. **Patented May 18, 1909.**

Fig. 1.

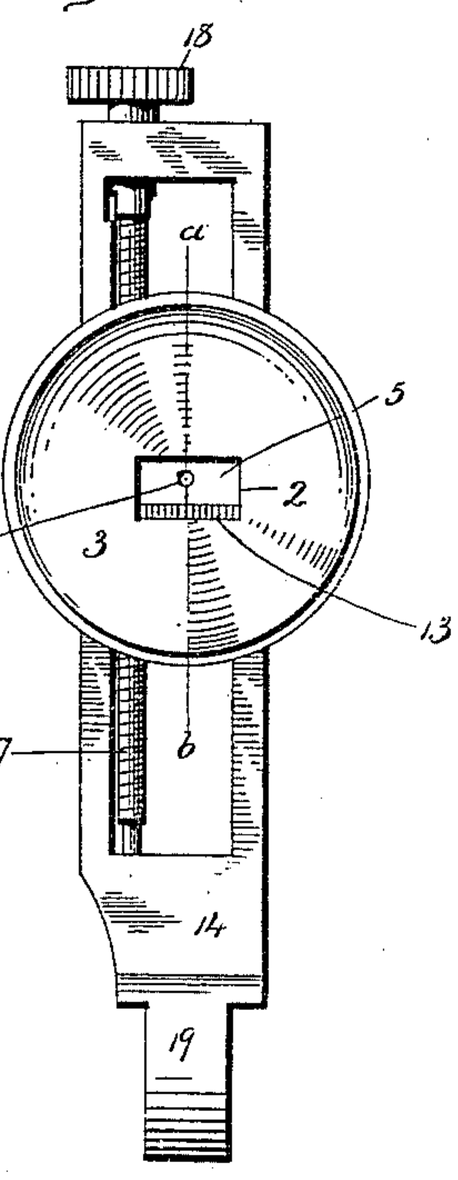


Fig. 2.

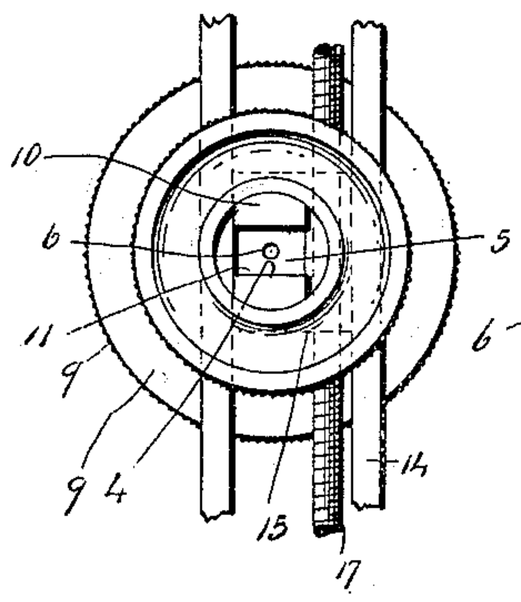


Fig. 3.

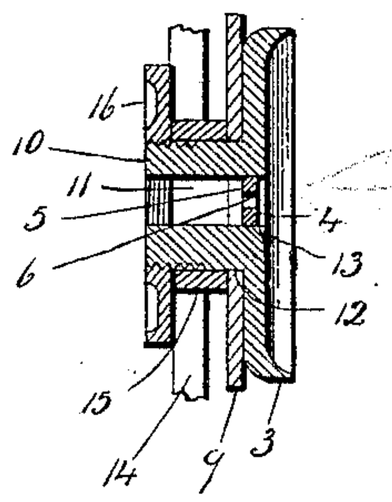


Fig. 4.

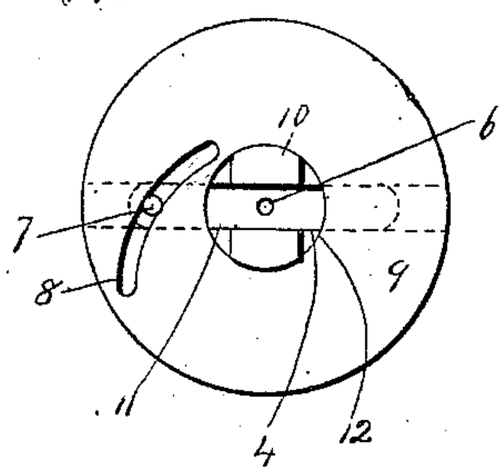


Fig. 5.

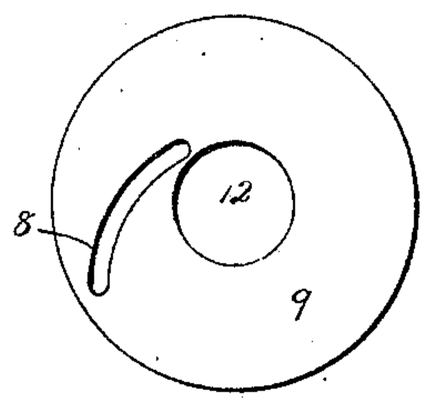


Fig. 7.

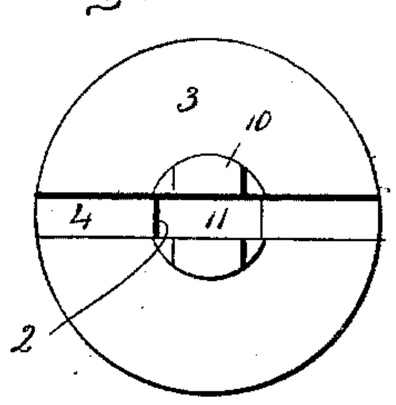
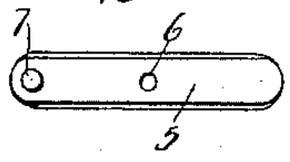


Fig. 6.



Witnesses
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1415

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UNITED STATES PATENT OFFICE.

WINCHESTER BENNETT, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO WINCHESTER REPEATING ARMS CO., OF NEW HAVEN, CONNECTICUT, A CORPORATION.

ADJUSTABLE WIND-GAGE REAR SIGHT FOR SMALL-ARMS.

No. 922,077. Specification of Letters Patent. Patented May 18, 1909.

Application filed December 28, 1908. Serial No. 469,607.

To all whom it may concern:

Be it known that I, WINCHESTER BENNETT, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Adjustable Wind-Gage Rear Sights for Small-Arms; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a view in front elevation of an adjustable wind-gage rear sight constructed in accordance with my invention. Fig. 2 a broken view thereof in rear elevation, showing the central portion of the device. Fig. 3 a broken view thereof in vertical central section on the line *a*—*b* of Fig. 1 and also showing the central portion of the device. Fig. 4 a detached view in rear elevation showing the circular operating-plate, the wind-gage slide and the disk or eye-piece combined as in use. Fig. 5 a detached view of the circular operating-plate. Fig. 6 a corresponding view of the wind-gage slide. Fig. 7 a corresponding view of the disk or eye-piece.

My invention relates to an improvement in adjustable wind-gage rear sights for small arms, the object being to produce a simple, compact, effective and convenient sight constructed with particular reference to fewness of parts and reliability in use.

With these ends in view my invention consists in an adjustable wind-gage rear sight having certain details of construction and combinations of parts as will be hereinafter described and pointed out in the claims.

In carrying out my invention as herein shown, I form a rectangular, horizontally arranged opening 2 in the center of a disk-shaped eye-piece 3 having its rear face slightly concaved, and its forward face formed with a horizontally arranged, undercut diametric slot 4 for the reception of a long narrow wind-gage slide 5 which has its edges beveled to fit into the said slot 4, and which is formed midway of its length with a peep or sight-hole 6, and provided at one end with an operating pin 7 entering a cam-slot 8 in a circular operating-plate or wheel 9 having a knurled edge and adapted in diameter to project a trifle beyond the edge of the eye-piece 3 against the flat forward face of which it bears whereby the said plate may be grasped by its edges from the rear of the device, and so operated with the utmost convenience by the user of the arm. The said eye-piece 3 is formed upon its forward face with a forwardly projecting, exteriorly threaded shank 10 having a wide slot 11 located in line with the slot 4 and providing for the reception of the wind-gage slide 5. The plate or wheel 9 is formed with a central opening 12 receiving the said shank 10 on which it rotates as upon a center. It will be understood that by rotating the plate 9 in either direction, the slide 5 will be moved horizontally to the right or the left as may be required for shifting the sight-hole 6 to one side or the other of the vertical center of the sight to compensate for the velocity of the wind. In shifting the slide 5 in either direction the user of the sight is guided by a graduated scale 13 upon the lower edge of the opening 2 in the eye-piece 3. By concaving the rear face of the eye-piece, disturbing side rays of light are shut out, whereby the graduated scale is made easier to read.

As herein shown the eye-piece 3, slide 5, and operating-plate 9 are mounted upon what is called, a rear-sight leaf 14 having a slide 15 through which the shank 10 of the eye-piece passes, the projecting rear end of the said shank receiving a nut 16 by means of which the eye-piece and its related parts are held in place. The said slide 15 is vertically adjusted by a traverse screw 17 mounted in the leaf 14 and provided at its upper end with a knurled operating button 18. The lower end of the leaf 14 is provided with a knuckle 19 adapting it to be pivotally connected with an ordinary sight-base which is not shown. The said leaf 14 forms a carrier, as it were, for the eye-piece 3 and the several parts combined therewith.

I claim:—

1. In an adjustable wind-gage rear sight for small arms, the combination with an eye-piece having its rear face concaved and formed with a centrally arranged oblong opening having one of its horizontal edges provided with a graduated scale, of a wind-gage slide located in front of the said eye-piece and formed with a sight hole—which is exposed through the said opening there

in the eye-piece, and means for adjusting the said slide and holding it in any position of adjustment.

2. In an adjustable wind-gage rear sight for small arms, the combination with a disk-shaped eye-piece having its rear face concaved, provided in its forward face with a longitudinal slot and formed with a horizontal opening coincident with the said slot and having one of its edges provided with a graduated scale; of a slide located in the said slot and formed with a sight-hole which is exposed through the said opening, and means for operating the said slide to shift the position of the sight-hole.

3. In an adjustable wind-gage rear sight for small arms, the combination with an eye-piece having its rear face concaved and formed with a central opening, of a longitudinally movable wind-gage slide located in front of the said eye-piece and formed with a sight-hole which is exposed through the said opening therein, and an annular operating plate bearing upon the front face of the eye-piece than which it is a trifle larger in diameter and connected with the slide for the operation thereof, whereby the operating-plate may be grasped by its edges from the rear of the device for its operation.

4. In an adjustable wind-gage rear sight, for small arms, the combination with a disk-shaped eye-piece having its front face concaved and formed with a central longitudinal opening and provided in its rear face with a diametric slot located in line with the said opening, of a movable wind-gage slide located in the said slot and formed with a sight hole which is exposed through the said opening one of the horizontal edges of which is provided with a graduated scale, and a circular operating plate larger in diameter than the eye-piece, bearing upon the front face thereof, and connected with the slide for the operation of the same, the said operating-plate being thus adapted to be grasped by its edges from the rear of the device.

5. In an adjustable wind-gage rear sight, the combination with a disk-shaped eye-piece, of a longitudinally movable wind-gage slide having an operating-pin, and an annular operating-plate formed with a cam-slot receiving the said pin for the operation of the slide.

6. In an adjustable wind-gage rear sight, the combination with a disk-shaped eye-piece having a central opening and a forwardly projecting threaded shank, of a wind-gage slide mounted in the eye-piece and passing through the said shank, an annular operating plate connected with the slide for operating the same and turning upon the said shank as upon a center, a carrier receiving the shank, and a nut applied to the shank for securing it to the carrier.

7. In an adjustable wind-gage rear sight, the combination with a carrier, of a vertically movable, disk-shaped eye-piece mounted upon the said carrier and formed with a central opening, and also with a slot, of a wind-gage slide located in the said slot, a circular operating plate or wheel having bearing against the forward face of the said eye-piece and connected with the said slide for operating the same, a forwardly projecting shank passing through the said plate and carrier, and a nut applied to the projecting end of the shank.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WINCHESTER BENNETT.

Witnesses:
DANIEL H. VEADER,
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