

No. 644,901.

A. R. DOUGLASS.

Patented Mar. 6, 1900.

GUN SIGHT.

(Application filed May 4, 1899.)

(No Model.)

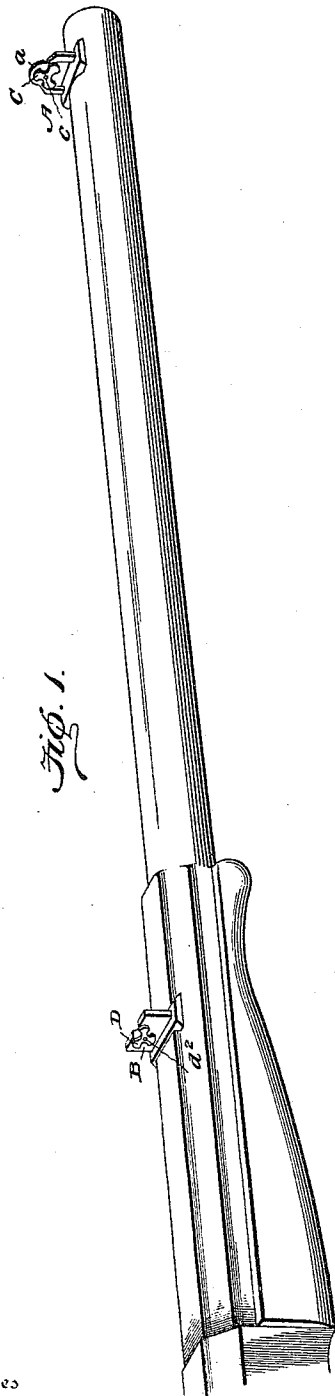


Fig. 1.

Fig. 5.



Fig. 4.



Fig. 3.

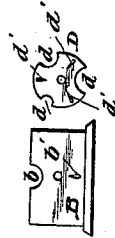
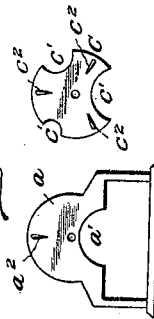


Fig. 2.



Witnesses

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# UNITED STATES PATENT OFFICE.

ARTHUR R. DOUGLASS, OF CHARITON, IOWA.

## GUN-SIGHT.

SPECIFICATION forming part of Letters Patent No. 644,901, dated March 6, 1900.

Application filed May 4, 1899. Serial No. 715,620. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR R. DOUGLASS, a citizen of the United States, residing at Chariton, in the county of Lucas and State of Iowa, have invented certain new and useful Improvements in Gun-Sights; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention has relation to certain novel improvements in gun-sights.

The object of the invention is to simplify and increase the efficiency and utility of the sight, whereby accuracy of aim may be readily and quickly attained.

To this end the invention consists in certain features of construction and combination of parts, which will be hereinafter fully described and claimed.

In the drawings, Figure 1 is a perspective view of a gun-barrel to which my improved front and back sights have been applied. Fig. 2 is an enlarged detail view of the front sight. Fig. 3 is a similar view of the back sight. Fig. 4 shows another form of the rear sight, and Fig. 5 shows the corresponding front sight.

Like letters of reference designate corresponding parts in all the figures of the drawings.

Referring to Fig. 1, A designates the front sight, and B the back or rear sight, the former of which is provided with the usual dove-tailed tongue or web by means of which it is secured in a corresponding transverse groove formed in the gun-barrel. The front sight comprises a vertical fence *a* of an arch form, so as to leave a clear open space between the top of the arch and the base and between the parallel sides which support the arch. This construction leaves an unobstructed field of vision so far as the front sight is concerned and in contradistinction to that class of devices which are generally known as "globe-sights" and in which the view is obstructed by a post within the sight proper.

The lower edge of the arched fence is formed with a recess *a'*, the axis of which is parallel to the bore of the barrel, and consequently is employed in reducing the field of vision to a focus on the target at about the moment of securing accurate aim. This field of vision is

further contracted or reduced by means of a diaphragm C, pivotally secured to the arch by a retaining-screw *c*, the periphery of the diaphragm being provided with graduated sight-notches *c'* *c'*, which may be concentrically alined with the corresponding recess *a'* in the fence, and thus reduce the field as desired.

The diaphragm C is preferably constructed of spring-steel, blued or oxidized so as not to reflect light, and the edges between the sight-notches may be milled, serrated, or roughened to conveniently facilitate its manipulation, and one of its faces may be stamped with a series of teeth *c<sup>2</sup>*, which will engage a retaining-notch *a<sup>2</sup>* in the fence.

Referring to the rear sight, the upper edge of the wall B is formed with a recess *b*, the axis of which is parallel to the bore of the barrel, and also with the corresponding recess *a'* in the front sight, and when the two recesses *a'* and *b* are alined the field of vision is confined to a circle the size of which can be reduced to a minimum when the axes of the two sights are brought into alinement with the focal point of the target or other object aimed at. As in the case of the front sight, the field may be further restricted by the diaphragm D, which is also formed with graduated notches *d* *d* and teeth *d'*, and it is pivoted in the same manner on the screw *d<sup>2</sup>* in the bridge-wall, the latter being formed with a retaining-notch *b'* to receive the teeth *d'* to secure the diaphragm in the position to which it has been adjusted. This rear sight is also provided with the conventional means for elevation to correspond to the distance between the gun and the target.

In the modified forms shown in Figs. 4 and 5 the principle involved is the same, except that the visual recesses in the front and rear sights are right-angular in form, as shown, instead of being semicircular, as detailed in the first instance, and the field of vision is restricted as the apices of the angles are brought into alinement.

It will of course be understood that various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what

is claimed, and desired to be secured by Letters Patent, is—

5 The combination with the gun-barrel having transverse seat-grooves for the reception of the front and rear gun-sights, of the front  
15 sight comprising a vertical fence  $a$ , of arch form provided with a retaining-notch  $a^2$ , and an open space between the top of the arch and its base, and between the parallel sides which  
16 support the arch, the lower edge of said arched fence being formed with a recess  $a'$  the axis of which is parallel to the bore of said gun-barrel, and a diaphragm C pivotally secured to said arch by a retaining-screw, the periph-  
15 ery of said diaphragm being provided with graduated sight-notches  $c' c'$ , and a series of

retaining-teeth  $c^2$  for engaging the retaining-notch  $a^2$ , and the rear sight B formed in its upper edge with the recess  $b$ , the axis of which is parallel to the bore of the gun-barrel and  
20 with the corresponding recess  $a'$  in said front sight, and the pivoted diaphragm D formed with graduated notches  $d d$  and teeth  $d'$  secured to the wall B of said rear sight, as set  
25 forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ARTHUR R. DOUGLASS.

Witnesses:

L. RIEBEL, Jr.,  
WM. MCDOWELL.