

W. R. HATFIELD.
 REAR SIGHT FOR RIFLES.
 APPLICATION FILED MAR. 16, 1909.

943,542.

Patented Dec. 14, 1909.

Fig. 1.

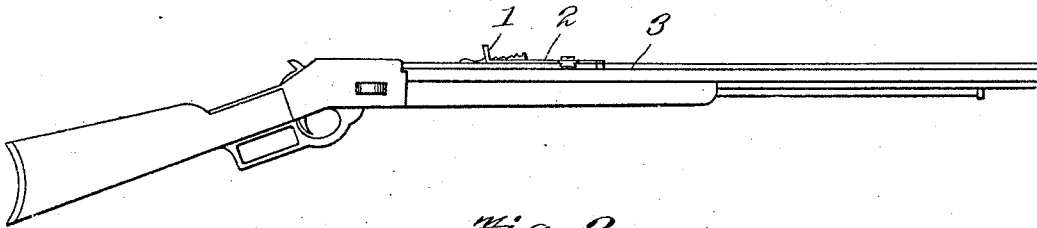


Fig. 2.

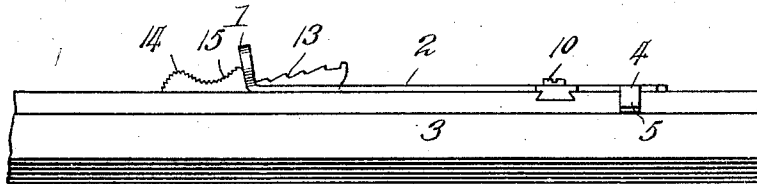


Fig. 3.

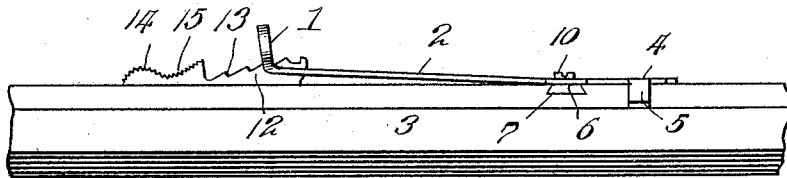


Fig. 5.



Fig. 4.

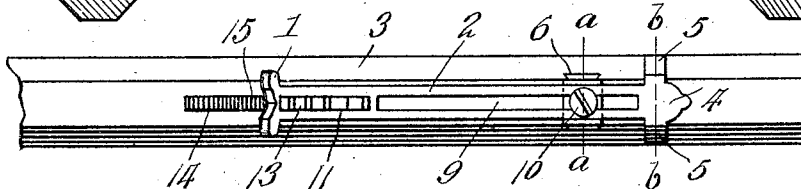
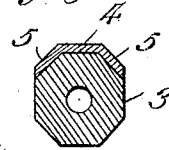


Fig. 6.



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REAR SIGHT FOR RIFLES.

943,542.

Specification of Letters Patent.

Patented Dec. 14, 1909.

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To all whom it may concern:

Be it known that I, WILLIAM R. HATFIELD, a citizen of the United States, residing at Meskill, in the county of Lewis and State of Washington, have invented new and useful Improvements in Rear Sights for Rifles, of which the following is a specification.

This invention is an improved rear-sight for rifles so constructed and mounted as to be longitudinally adjustable on the rifle barrel to any focus and hence adapted to the peculiarities of the eyes of different persons, for near-sightedness, far-sightedness or the like and also adapted for high or low shooting, and the said invention consists in combining with a sight having a longitudinal shank, a device to connect said shank to the barrel of a rifle to vary the distance between the front and rear sights as may be required or found desirable by the user, the invention further consisting in the construction, combination and arrangement of devices hereinafter described and claimed.

In the drawing:—Figure 1 is an elevation of a rifle provided with a rear-sight constructed in accordance with this invention. Fig. 2 is an elevation of a portion of the rifle barrel, showing my improved sight thereon and showing the sight in its lowermost position. Fig. 3 is a similar view showing the sight somewhat elevated for shooting at a longer range. Fig. 4 is a plan of the same. Fig. 5 is a transverse section taken on the plane indicated by the line *a—b* of Fig. 4. Fig. 6 is a similar view taken on the plane indicated by the line *b—b* of Fig. 4.

The sight 1 is here shown as a horn-sight. It may be of any other suitable construction or form. The sight is formed integrally and provided with a spring shank 2 which lies longitudinally on the upper side of the rifle barrel 3, the sight 1 being upturned at the rear end of said spring shank. Said spring shank is formed at its front end with a head 4 which bears on the upper side of the rifle barrel and is provided with laterally extending arms 5 which are turned downwardly and bear also on the upper portion of the barrel, said arms when the barrel, as is usual, is octagonal in form transversely bearing on certain of the faces of the barrel.

A guide and supporting block 6 has a transversely dove-tailed or lower portion adapted

to fit in a transverse groove 7 in the upper side of the barrel. In the upper side of the said block is a groove 8 which is parallel with the bore of the barrel and receives and forms a guide for the shank 2 of the sight. The said shank has a longitudinal slot 9 which extends from near its front end to a point within a suitable distance on its rear end and receives a screw 10 which engages a screw threaded opening in the block 6 and serves to secure the shank, and hence also the sight, at any desired adjustment longitudinally of the barrel so that the rear-sight may be adjusted as may be required by the vision of the user of the rifle.

It will be understood that the arms 5 are slidable on the upper side of the barrel and that said arms coact with the guide or supporting block 6 and the screw 10 to keep the shank of the rear-sight always exactly parallel with the bore of the barrel. The said shank has in its rear portion a longitudinal slot 11 for the reception of a wedge-shaped elevator 12, the upper side of which is stepped as at 13 to engage the under side of the sight 1 and hold the sight at any desired elevation according to the distance of the target. The upper portion of the elevator operates in the slot 11 and protrudes upwardly through such slot as clearly shown in Figs. 2 and 3. At the rear end of the elevator is a longitudinally extended finger piece 14, the upper edge of which forms a compound curve and is serrated as at 15 to facilitate the longitudinal adjustment of the elevator by the finger of the user.

It will be understood from the foregoing that when the rear-sight is attached longitudinally as may be required by the user, the elevator is moved longitudinally therewith and it will be further understood that the elevator may be manipulated to raise and support the sight as may be required by the distance of the target.

Having described the invention, what I claim is:—

1. A fire arm having a barrel, a guiding and supporting block attached thereto provided with a guide groove longitudinally of the barrel, in combination with a rear-sight having a shank disposed longitudinally with respect of the barrel and in said guide groove and means coacting with said block to secure said shank and hence such sight at any desired longitudinal adjustment.

2. A fire arm having a barrel provided

with a guide block detachably secured to the barrel and provided with a guide groove, a rear-sight having a longitudinal shank, said shank bearing in said guide groove and being longitudinally slotted, a set device operating in a slot of said shank and coacting with said block to secure said shank at a desired longitudinal adjustment of the barrel and an elevator to raise and lower the sight with respect to the barrel.

3. A rifle barrel having a guiding and adjusting device thereon in combination with a sight having a longitudinal shank engaged

by said guiding and adjusting device, said shank being further provided with laterally extending arms bearing on the barrel and coacting with the guiding and adjusting device to hold the shank of the sight parallel with the barrel.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM R. HATFIELD.

Witnesses:

THOS. W. ALLISON,
SILAS SAGE.