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J. D. PEDERSEN.

RIFLE SIGHT.

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936,807.

Patented Oct. 12, 1909.

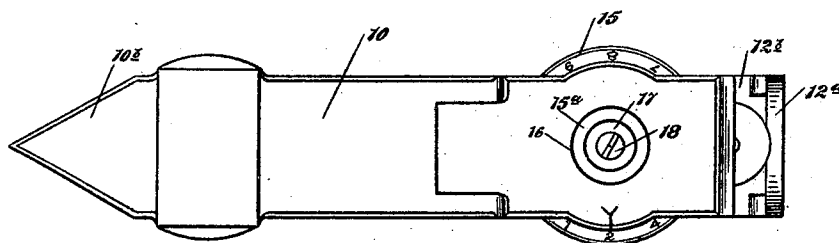


Fig. 1.

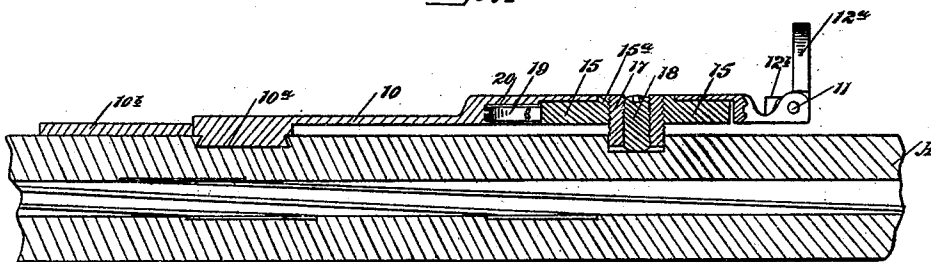


Fig. 2.

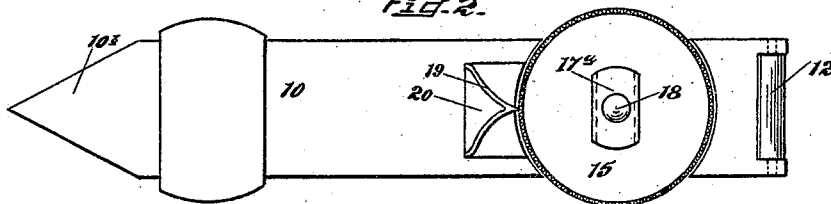


Fig. 3.

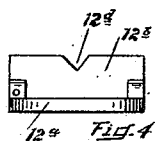


Fig. 4.

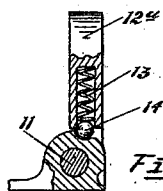


Fig. 6.

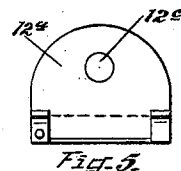


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

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RIFLE-SIGHT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN D. PEDERSEN, of Jackson, in the county of Uinta and State of Wyoming, have invented certain new and useful Improvements in Rifle-Sights; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form part of this specification.

The object of my present invention is to provide a sight for rifles, which is simple and compact in construction, easily and accurately adjusted and well adapted to meet the requirements of such a device.

Figure 1 shows a plan view of my improved sight on an enlarged scale. Fig. 2 shows a longitudinal central sectional view in connection with a section of rifle barrel on which it is mounted also shown in section. Fig. 3 is a bottom view of the sight. Fig. 4 is an end elevation of the sight showing particularly the reversible leaf in one of its positions of adjustment. Fig. 5 is a similar view with the reversible leaf in the other position. Fig. 6 is still further an enlarged partial sectional view showing a spring pin employed in the construction.

Referring to the reference letters and figures in a more particular description, 10 indicates a flexible spring base provided adjacent to one end of the under side with a transverse dovetailed projection 10^a adapted to be received in a transverse dovetailed groove in the upper side of the barrel A in the usual manner of sights of this general character. The body 10 may be provided with a forward extension 10^b which rests on the top of the barrel and affords a substantial support against the force required to flex the base in elevating the rear end as hereinafter pointed out. Pivoted at 11 on the rear end of the flexible base 10 is a reversible leaf consisting of members 12^a and 12^b, the former having an aperture 12^c constituting what is generally termed a peep sight, while the part 12^b has a notch 12^d constituting what is usually denominated an open sight. In one corner the part 12^a is provided with a socket carrying a spring 13 and a ball 14, the latter adapted to engage in either of two suitably located depressions on the periphery of the ear carrying the

pivot pin 11. In the under side of the body adjacent to the free end carrying the sight leaf is provided a recess which receives the nut 15, which is of enlarged disk form, and is provided with a bearing boss 15^a adapted to rotate freely in an opening 16 in the upper face of the body. The diameter of the body of the nut 15 is such as to present its periphery projecting beyond the edges of the base, whereby it is adapted to be readily rotated by the hand of the user. The internal opening of the nut 15, including the boss part 15^a, is screw-threaded and receives the upper screw-threaded nut of the screw 17, the base end of which screw 17 is provided with an elongated head 17^a adapted to be received in a shallow groove in the top of the barrel A, whereby the screw is both supported against downward movement and rotation. The screw 17 may also have a longitudinal threaded opening receiving the screw 18, which said screw may be operated, that is to say, rotated by means of a screw driver inserted in a screw slot in the upper end. The periphery of the nut 15 will be provided with fine teeth adapted to receive the operative point of a spring catch or click 19, which click or catch 19 is received in a recess 20 in the under side of the base.

When the sight is applied to a rifle barrel, as shown, the arrangement will be such that the natural spring of the base 10 will be to throw the free end carrying the sight leaf downwardly against the barrel. The rear free end may then be more or less elevated by rotating the nut 15. As the nut 15 is rotated and the screw 17 held against rotation, it is evident that when the nut is rotated in the right direction the rear free end of the sight will be elevated, and likewise when the nut 15 is rotated in the opposite direction the spring of the flexible base will move the rear end down. Some vertical adjustment may be secured by means of the screw 18 if desired. This adjustment enables the sight to be adjusted to point blank position without placing the graduations on the nut out of their normal point blank position.

It will be noted that the bearing of the upper side of the nut 15 against the under face of the base is large and the friction at this point, together with the spring click 19 will secure the nut against rotation, except when it is forcibly rotated. The operator can readily turn the sight leaf, consisting of the members 12^a and 12^b, in either direc-

tion as desired conveniently and with facility, and it will be at once locked in either position by the spring click previously described.

5 What I claim as new and desire to secure by Letters Patent is:

1. A rifle sight consisting of a spring base having means for securing one end to a rifle barrel and having a sight opening at the
10 other end, an elevating nut having a bearing in the free end of the base, a screw secured in the barrel and engaging with the nut, substantially as set forth.

2. A rifle sight having a spring base provided with means for securing one end and having a sight opening at the other end, a rotatable disk-like nut mounted in a bearing in the base and projecting beyond the sides and a fixed screw secured in the barrel and
20 engaging the nut, substantially as set forth.

3. A rifle sight having a spring flexible base, means for securing one end of the base to the rifle barrel, sight openings carried by the other free end of the base, an elevating
25 screw nut having a bearing in the base adjacent to the free end and a stationary screw supported by the rifle barrel engaging in the screw-threaded opening of the nut, substantially as set forth.

30 4. A rifle sight consisting of a spring flexible base having means for securing one end to the rifle barrel, a reversible leaf having sight openings mounted in the free end, the free end being recessed on its under side, a
35 rotatable disk-like nut having a bearing in

the recess in the base and a stationary screw adapted to be secured in the barrel and engaging in a screw-threaded opening of the nut, substantially as set forth.

5. A rifle sight consisting of a spring flexible base having means for securing one end to a rifle barrel, a sight opening mounted upon the free end of the base, a rotatable disk-like nut received in a recess on the under side of the free end of the base and
45 projecting as to its periphery at each side of the base, a fixed screw adapted to be secured in the barrel and engaging with the screw-threaded opening of the nut and a spring click operating on the nut, substantially as
50 set forth.

6. A rifle sight consisting of a spring flexible base having means for securing one end to the rifle barrel, and carrying the sight openings at the other, a main adjusting
55 screw secured against rotation on the barrel under the free end of the base, a graduated nut mounted in a bearing in the base and engaging the adjusting screw, and an additional adjusting screw passing through the
60 main adjusting screw, substantially as set forth.

In witness whereof, I have affixed my signature, in presence of two witnesses, this 10th day of October, 1908.

JOHN D. PEDERSEN.

Witnesses:

EMMA S. HESSE,
SARAH E. CLARK.