

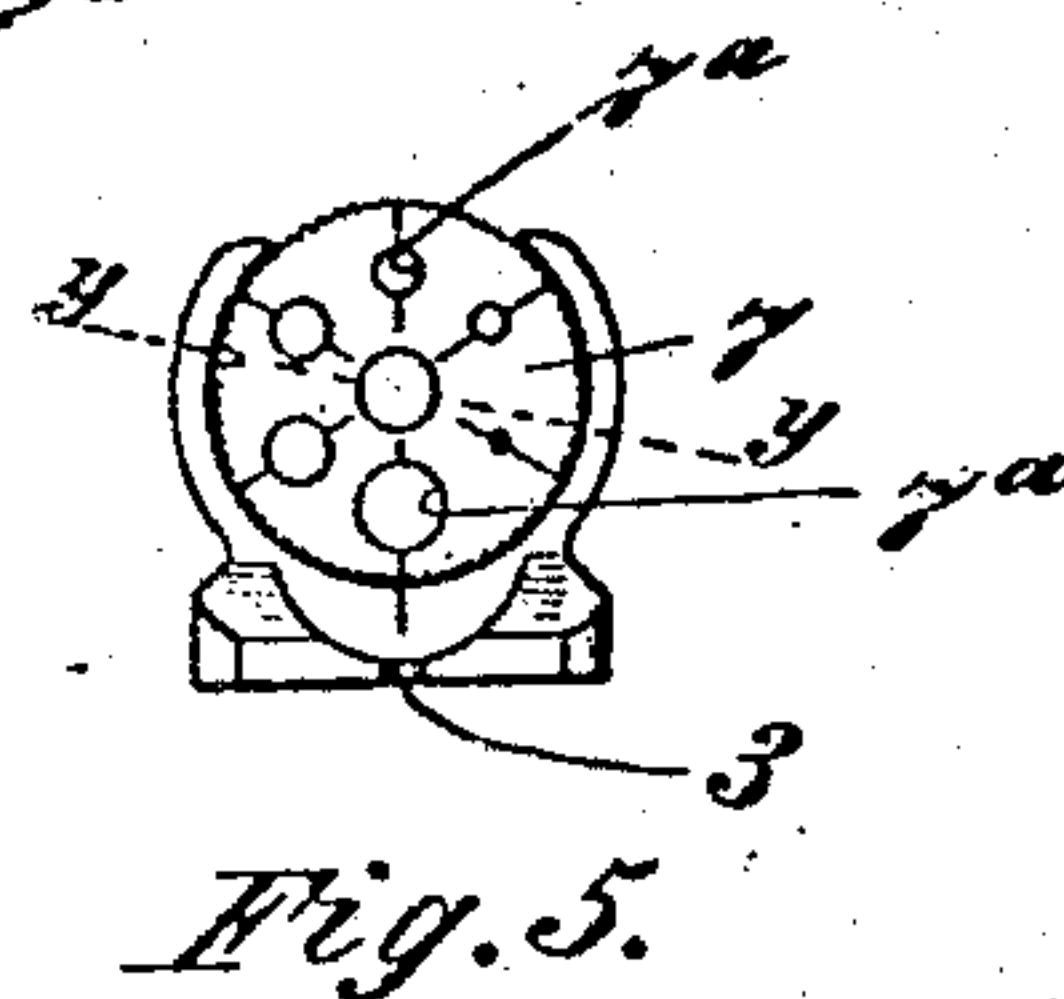
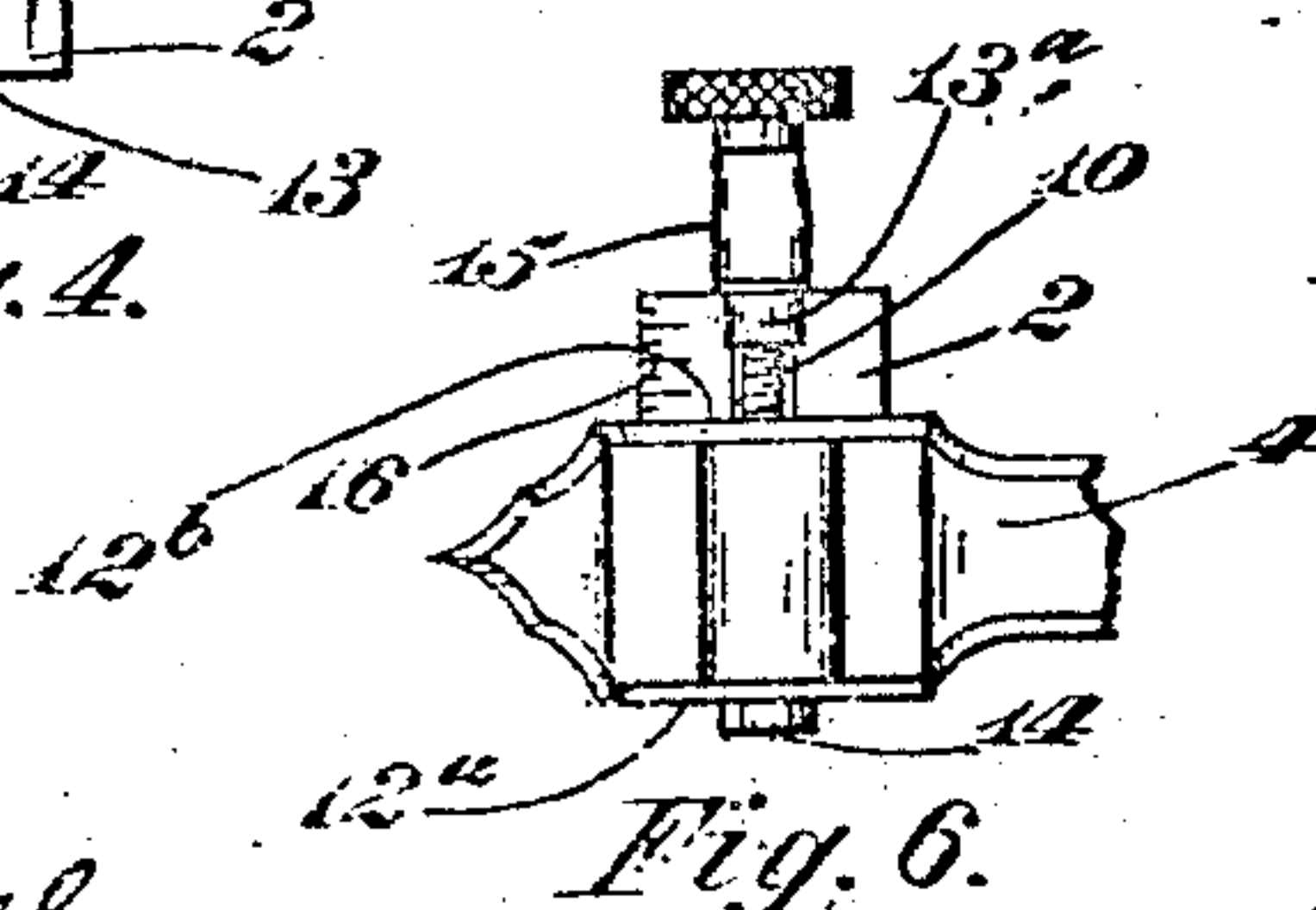
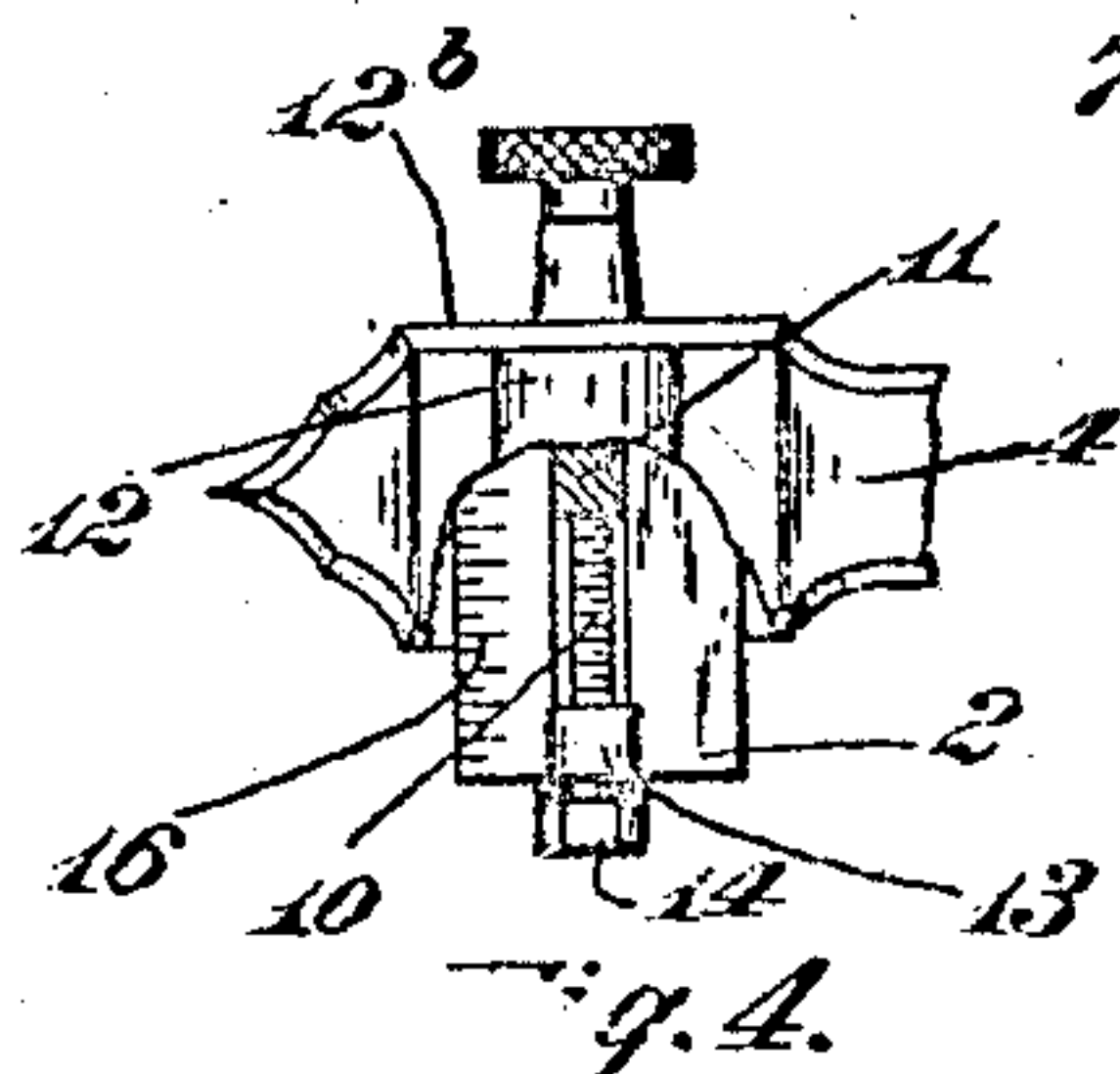
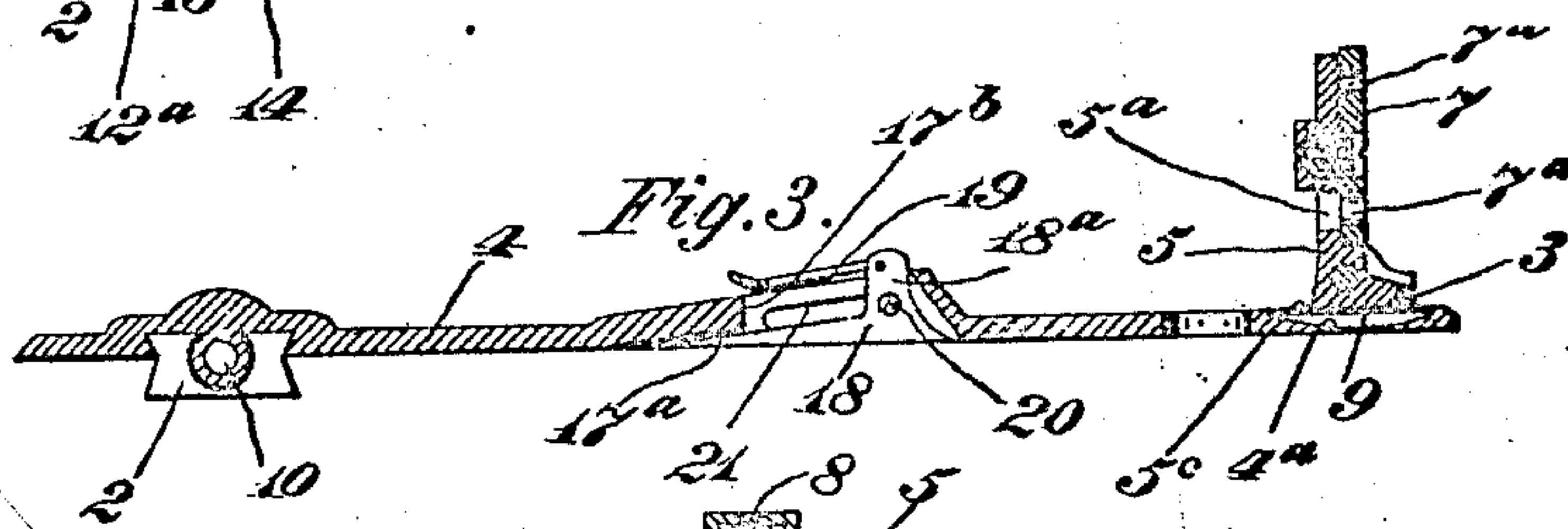
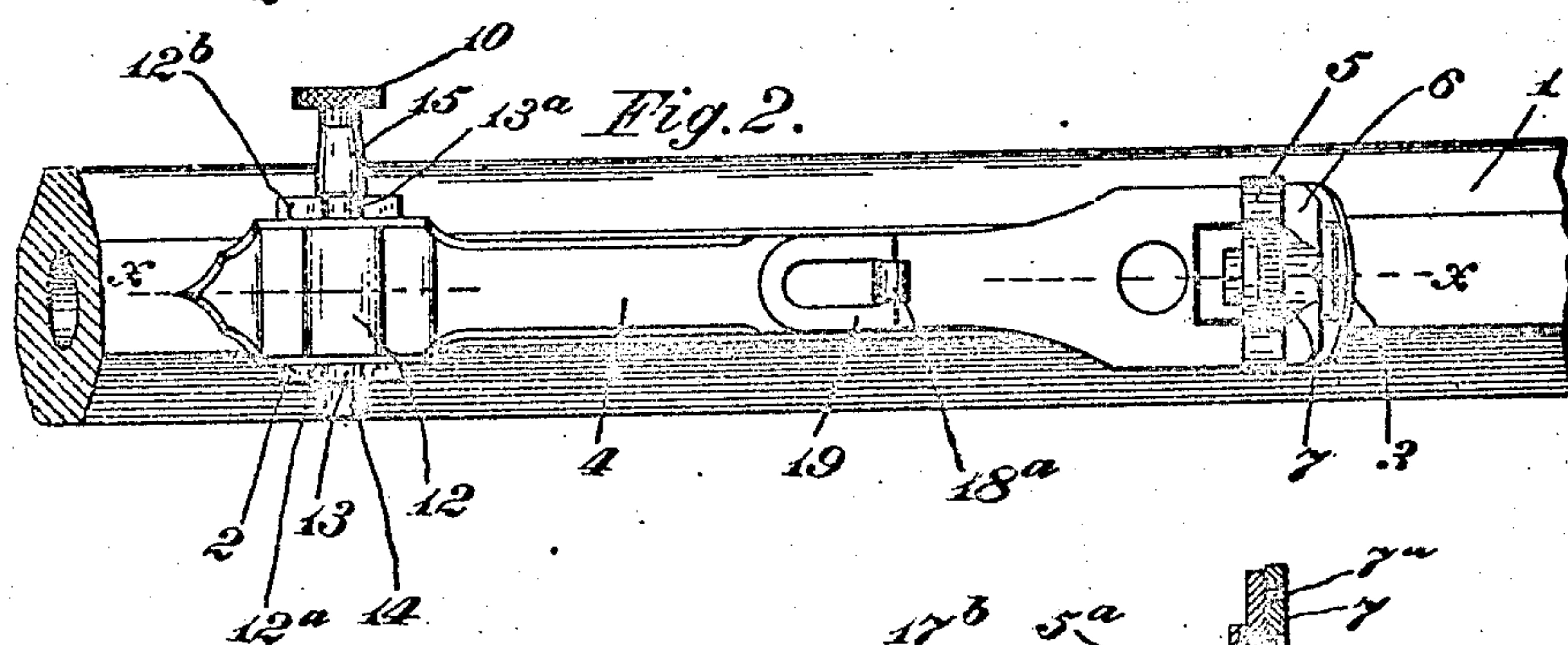
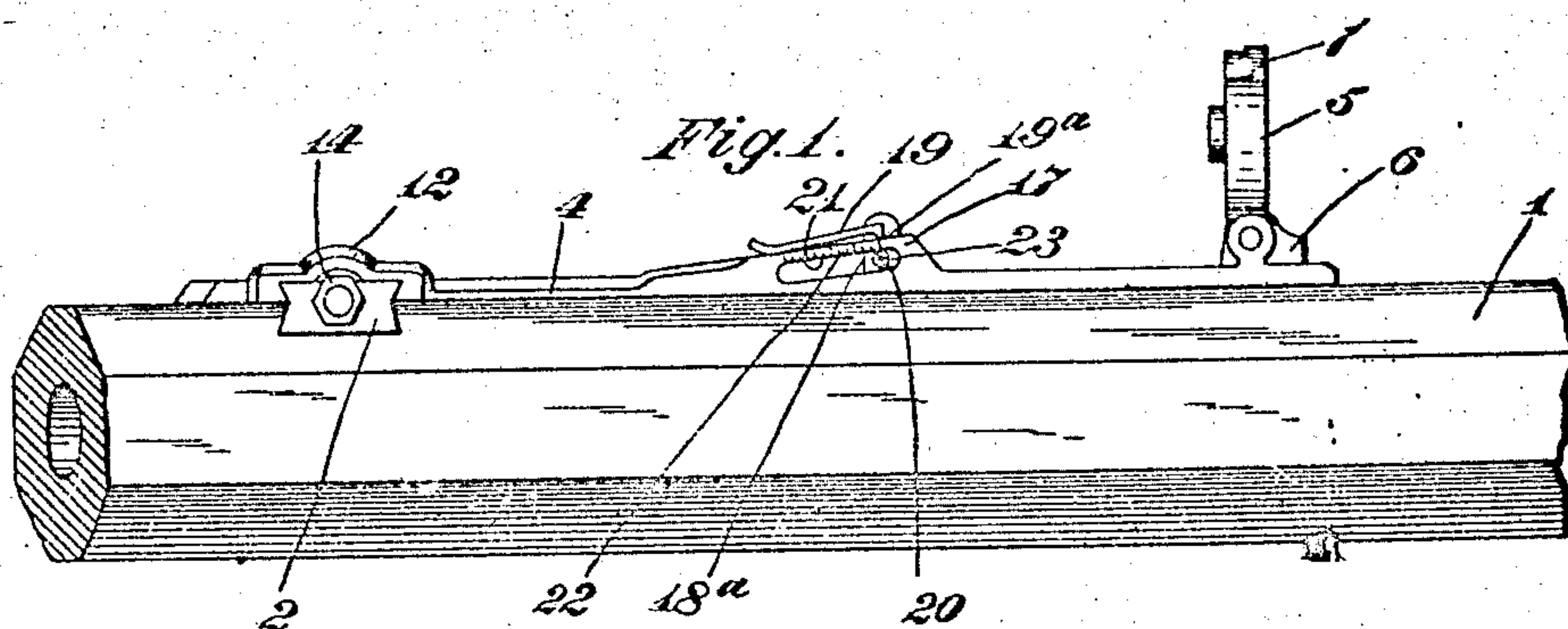
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GUN SIGHT.

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899,020.

Patented Sept. 22, 1908.



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PAT. AVAIL.

# UNITED STATES PATENT OFFICE.

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## GUN-SIGHT.

No. 899,020.

Specification of Letters Patent.

Patented Sept. 22, 1908.

Application filed August 2, 1907. Serial No. 386,700.

*To all whom it may concern:*

Be it known that we, JOHN Y. BASSELL and FRED C. BLENKNER, citizens of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Gun-Sights, of which the following is a specification.

The object of the invention is to provide a simplified rear sight more especially adapted for use on what are known as sporting rifles.

Briefly, the invention consists of a sighting member including a sight disk provided with a plurality of sight apertures, an open or notch sight on the sighting member; a supporting plate or bar for said sighting member adapted for attachment to the rifle barrel, mechanism for adjusting said plate vertically with respect to the barrel to provide for elevation of the sighting member, and mechanism for adjusting the plate laterally of the barrel to provide for windage correction.

In the accompanying drawings showing one embodiment of the invention, Figure 1 is a side elevation of a portion of a rifle barrel with the sighting device attached, Fig. 2 is a top plan view of the sighting device attached to a rifle barrel, Fig. 3 is a sectional view on the line  $x-x$  of Fig. 2, Fig. 4 is a top plan view, with parts broken out, of the mechanism for adjusting the sighting device to correct for windage, Fig. 5 is a front view of the sight leaf with the sight disk and open or notch sight thereon, Fig. 6 is a top plan view of the mechanism for adjusting the sighting device for windage correction, and Fig. 7 is a sectional view of the sighting member and leaf taken on the line  $y-y$  of Fig. 5.

In the several views 1 designates a rear portion of a rifle barrel provided on its upper surface with a transverse wedge shaped groove to receive a correspondingly shaped block 2 by which a plate or bar 4 for supporting the sighting member is secured to the rifle barrel, said plate being provided with a transverse groove to receive said block and permit a sliding lateral movement of the plate with respect to the rifle barrel.

5 designates a sight leaf pivoted to the plate 4 at its rear end or the end nearest the gun stock. The sight leaf 5 is provided at its pivoted end with a flange member 6 extending at right angles to the face of the leaf and containing an open or notch sight 3.

7 designates a sight disk provided with a plurality of sight apertures 7<sup>a</sup> arranged with their sighting centers equally distant from the center of the disk. The sight disk 7 is seated in a recess in the sight leaf and is pivoted to rotate therein, the leaf being provided at its lower side with an aperture 5<sup>a</sup> with which the sight apertures in the disk align when said apertures are in sighting position. The inner surface of the disk 7 is provided with a series of notches, one of which is indicated in cross section in Fig. 7 at 7<sup>b</sup>, to receive a projection 5<sup>b</sup> on the inner surface of the sight leaf whereby the sight disk is latched in the sighting position of the several sights, the sight disk being yieldingly held against the sight leaf by means of a small coil spring 8 seated in a pocket in the disk and bearing against the head of the screw 7<sup>d</sup> secured to the sight leaf 5 and forming the pivot for the sight disk. The sight disk is milled on its rim to permit the rotation thereof with the thumb or finger.

It will be seen that the sight leaf 5 can be moved on its pivot to vertical position for sighting through the apertures in the disk or to horizontal position for bringing the open or notch sight 3 into sighting position. To latch or hold the sight leaf in the respective positions thereof a small plate spring 9 is seated in the supporting plate, which spring engages respectively the base of the leaf to hold the same in vertical position and the rear face of the leaf to hold it in horizontal position. The plate 4 is grooved or hollowed out at 4<sup>a</sup> below the spring 9 to provide for flexing of the spring when engaged by the corner 5<sup>c</sup> of the leaf 5 in adjusting the leaf to horizontal and vertical positions.

As before stated the plate 4 is adjustable laterally with respect to the rifle barrel, this adjustability being to provide for windage correction. To effect this adjustment with ease and precision we employ a screw 10 that engages a threaded block 11 on the lower surface of the portion 12 of the plate 4, the screw itself being held from lateral movement by means of sleeves 13 and 13<sup>a</sup> fixed to the block 2 and engaged respectively by a nut 14 and a collar 15 on the screw. The upper surface of the block 2 is provided with a scale 16 with which the edges 12<sup>a</sup> and 12<sup>b</sup> of the portion 12 cooperate to indicate the extent of lateral movement of the plate under the action of the screw 10.

To provide for elevation of the plate 4 and



the sighting member carried thereby said plate is made of resilient metal and is formed intermediate its ends with a frame portion 17 in which is fitted a wedging block 18 to engage an inclined inner surface 17<sup>a</sup> of said frame and the upper surface of the rifle barrel. The wedging block 18 is provided with a lug 18<sup>a</sup> that passes through a slot 17<sup>b</sup> in the upper surface of the frame 17 and has secured to it a cam latch 19 for latching the wedge-block in adjusted position, said latch also serving as a handle by which the wedge is moved. The latch 19 is pivoted to the lug 18<sup>a</sup> of the wedge block and is provided with a cam surface 19<sup>a</sup> to engage the upper surface of the frame portion 17 and lock the wedge block in adjusted position when the latch is thrown down. The wedge block 18 is also provided with a guide pin 20 that projects on each side through guide slots 21 in the frame portion 17, said guide slots being inclined downwardly towards the fixed end of the plate 4. It will be seen that in moving the wedge block forwardly the plate 4 and sighting member carried thereby are elevated and when the wedge block is moved backward the plate 4 moves or springs of its own resiliency towards its normal position against the gun barrel. A scale 22 is provided on one side of the frame 17 and an end of the guide pin 20 is provided with an index 23 for cooperation with said scale to indicate the extent of elevation of the plate 4 and sighting member.

It is obvious that the device provides for a wide range of conditions in sport shooting or other uses to which the device may be applied and furthermore the device is of simple construction, protrudes but slightly above the rifle barrel, and may be adjusted with facility and great accuracy to meet visual capabilities of the shooter, to compensate for the effect of wind and to provide for various atmospheric conditions.

What we claim is:

1. A gun sight comprising, in combination, a pivoted sight leaf, a rotatable member thereon provided with sighting openings of various sizes the sighting centers of which are located equally distant from the axis of rotation of the rotatable member, said sight leaf having extending therefrom a member having a sight notch, a plate to support the pivoted sight leaf, and means for adjusting said plate laterally with reference to the barrel to provide for windage, and means for raising and lowering said leaf and its pivotal connection.

2. A gun sight comprising, in combination, a spring plate provided at its rear end with a suitable sighting device, and at its forward end with means for attaching it to a barrel, said plate provided with an inclined surface at its under side, a wedge having a continuously straight edge to work between

said plate and the barrel and located to cooperate with said inclined surface of the plate, and a cam device carried by said wedge and movable with reference thereto to fix the wedge in adjusted position with reference to said plate for the purpose explained.

3. A gun sight comprising, in combination, a spring plate provided at its rear with a suitable sighting device, means for attaching said plate at its forward end to a barrel, said plate provided with an inclined surface at its under side and with an inclined slot, a wedge to work between the plate and the barrel and located to cooperate with said inclined surface whereby the elevation of the sighting device can be regulated, and a pin connecting said wedge to said plate and extending into said slot.

4. A gun sight comprising, in combination, a spring plate provided at its rear end with a suitable sighting device, means for attaching said plate at its forward end to a barrel, said plate provided with an inclined surface at its under side and with an inclined slot, a wedge to work between the plate and the barrel and located to cooperate with said inclined surface whereby the elevation of the sighting device can be regulated, a pin connecting said wedge to said plate and extending into said slot, and a scale on said plate, said pin provided with an indicator to indicate the elevation of said sighting device.

5. A gun sight comprising, in combination, a spring plate provided at its rear end with a suitable sighting device, means for attaching said plate at its forward end to a barrel, a wedge device to work between said plate and the barrel whereby elevation of the sighting device may be regulated, and means for adjusting said plate on its attaching means laterally with reference to the barrel to compensate for windage.

6. A gun sight comprising, in combination, a spring plate provided at its rear end with a suitable sighting device and means for attaching the plate at its forward end to the barrel, a wedge device to work between said plate and the barrel whereby elevation of the sighting device may be regulated, and means for adjusting said plate on its attaching means laterally with reference to the barrel to compensate for windage comprising a screw engaging the plate and immovably longitudinally engaged with the attaching means.

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