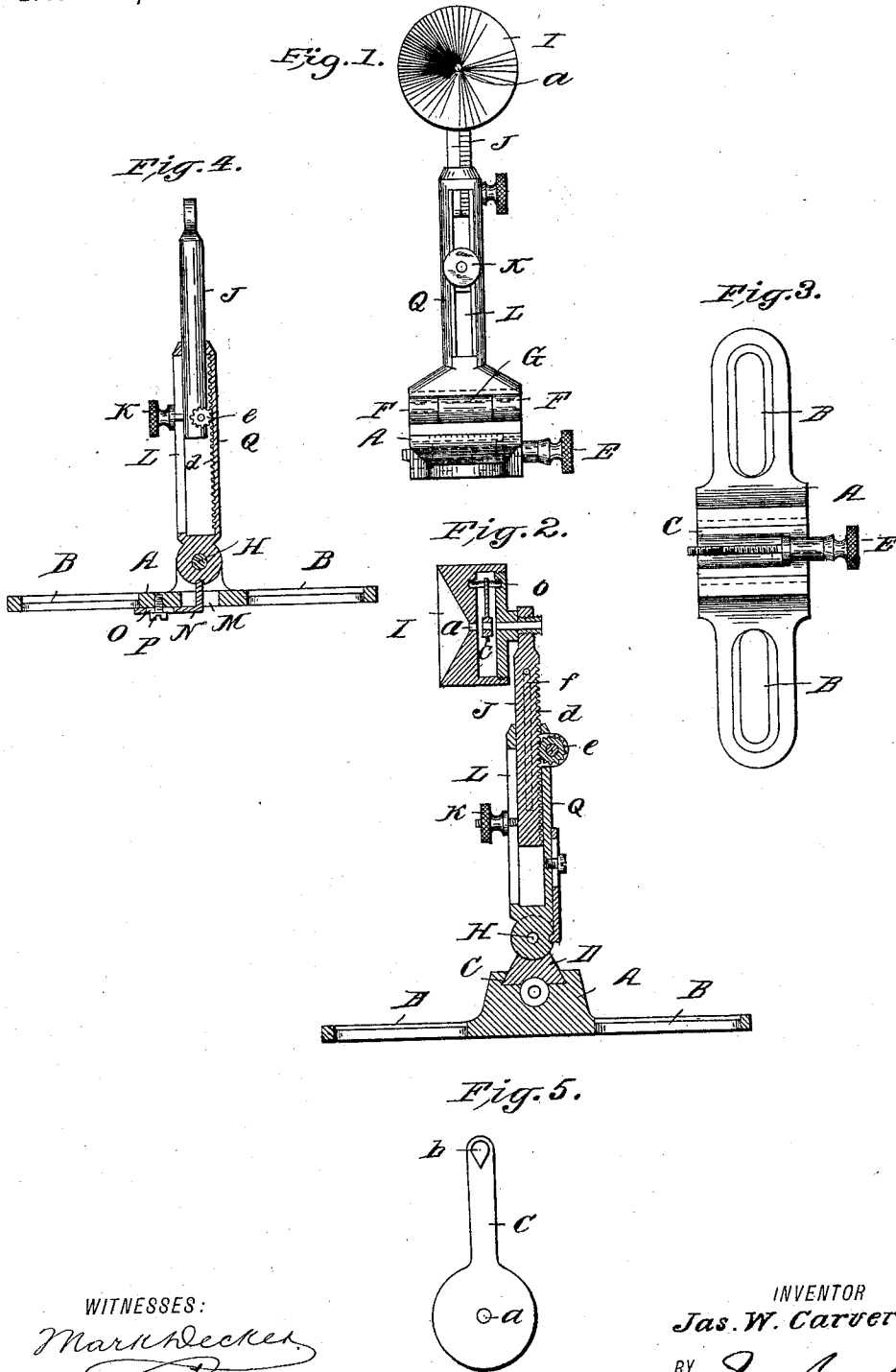


(No Model.)

J. W. CARVER.
SIGHT FOR FIRE ARMS.

No. 466,599.

Patented Jan. 5, 1892.



WITNESSES:
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Chas. Herbert.

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UNITED STATES PATENT OFFICE.

JAMES WOOD CARVER, OF PAWLET, VERMONT, ASSIGNOR OF ONE-HALF TO
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SIGHT FOR FIRE-ARMS.

SPECIFICATION forming part of Letters Patent No. 466,599, dated January 5, 1892.

Application filed January 29, 1891. Serial No. 379,595. (No model.)

To all whom it may concern:

Be it known that I, JAMES WOOD CARVER, a citizen of the United States, and residing at Pawlet, in the county of Rutland and State of Vermont, have invented certain new and useful Improvements in Sights for Fire-Arms, of which the following is a full, clear, and exact specification.

The present invention constitutes an improvement on Patent No. 404,598, granted to me on June 4, 1889; and it consists, essentially, of means for adapting the base of a sight to fit any make of gun. I use similar means to those shown in the above patent for regulating the sight, so that it will occupy a vertical position even in cases where the sight is attached to the inclined portion of the gunstock, and I also provide an improvement on the aforesaid sight by placing therein a pendulum provided with a peep-hole, suspended by a small knife-edged rod. The use of the said pendulum enables the marksman to plumb the gun, which is very essential in target and other practice. In a modification I also show another way of constructing my regulating device and means of attaching the spring to the under side of the base-plate for keeping the upright bar in a vertical position after the same has been adjusted.

In the drawings, Figure 1 is a front elevation of a gun-sight. Fig. 2 is a vertical section thereof. Fig. 3 is a plan view of the base-plate. Fig. 4 is a vertical sectional view representing a modification of my said invention. Fig. 5 is a detail view of the sight-pendulum.

The base A is adapted to be attached upon the gunstock by means of screws passed through the elongated slots B and thence into the gunstock. Said base is provided with a transverse groove C for the reception of the transverse slide D, and there is an adjusting-screw E, similar to that used in the aforesaid patent, to facilitate accurate adjustments, and there are jaws F upon the transverse slide D and a central joint-piece G, through which the hinge-pin H passes, so that the sight can be swung upon this hinge-pin and turned down against the gun or brought up vertically.

The sight I is constructed in the following manner: The face of the front half is made

concave, having the usual peep-hole *a*, and the opposite side is made hollow, as shown in Fig. 2, and having a small round hole for the reception of one end of the knife-edged rod *b*, the said rod having suspended to it the pendulum *c*. The rear half of the sight also has the peep-hole continued and a small round hole adapted to engage the other end of the pendulum-suspending rod *b*. A continuation in the shape of a threaded tube is formed on the back plate for use in screwing the sight to the upright rack-bar J. The height of the sight is regulated by the rack *d* and pinion *e*, as shown in Fig. 2.

I also show in Fig. 4 a modified construction of rack and pinion, wherein, instead of placing the pinion on the outer side of the hollow cylindrical support Q, I form the rack on one side of said support and attach the pinion to the upright bar J. The bar J has a scale marked on one or the face side thereof. The bar is also provided with a set-screw K, which passes out through the slot L in the cylindrical support, for the purpose of fastening the bar after it has been adjusted to the desired position. In the modification the base-plate has a longitudinal slot M in its center. An L-shaped spring N is adjusted at the under side of the base-plate by means of a screw P, and the short arm of spring N is adapted to project upwardly through the slot M. The long arm of spring N has a longitudinal slot in it for the reception of the screw P, which secures the spring to the base-plate. Slots M and O being of sufficient length, the spring will engage with the usual groove in the hinge, securing any desired vertical adjustment. A tension-spring *f* is shown in dotted lines adjusted at one end to the upright bar J and lying in a groove cut longitudinally along said bar, the said spring exerting pressure against the cylindrical support Q, and thereby holding the bar J in position while the set-screw is being applied.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A gun-sight base having a longitudinal slot at both ends for adjustment to any gunstock, substantially as specified.

2. In a gun-sight, the combination, with the

base having a cylindrical support or standard Q hinged thereto, said support containing a bar J, provided with a rack on one side for engagement with a pinion, which pinion is suitably mounted on this support, of a slot L in said support and set-screw K, adapted to slide in said slot, and a tension-spring adjusted on the bar J and adapted to exert pressure against the support Q to temporarily retain the bar in position, substantially as described and shown.

3. The combination, with a gun-sight base, of a longitudinal slot in said base, an L-shaped spring provided with a longitudinal slot in its long arm for attachment to the under side of the base by a screw, and with its short arm extending upwardly through the slot in the base, substantially as described and shown.

4. The new pendulum eye-sight, consisting of two separate plates connected together, each provided with corresponding peep-holes and having a space between them in which a pendulum, also provided with a peep-hole, swings, and a knife-edged rod journaled within the

eye-piece, said rod carrying the pendulum, which is adapted to swing laterally within the eye-piece.

5. The combination, with an eye-piece for gun-sights, of a pendulum suitably adjusted within said eye-piece and adapted to swing laterally, the said pendulum being provided with a peep-hole to correspond with the peep-hole in the eye-piece, substantially as described and shown.

6. In a gun-sight, the combination, with eye-piece I, formed of two plates and having peep-holes *a*, together with knife-edged rod *b*, suitably adjusted in the two plates of the eye-piece, and pendulum *c*, suspended from rod *b* and provided with the peep-hole, substantially as described and shown.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of January, 1891.

JAMES WOOD CARVER.

Witnesses:

G. H. CARVER,
O. BUSHEE.