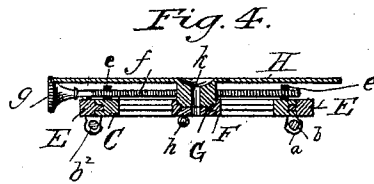
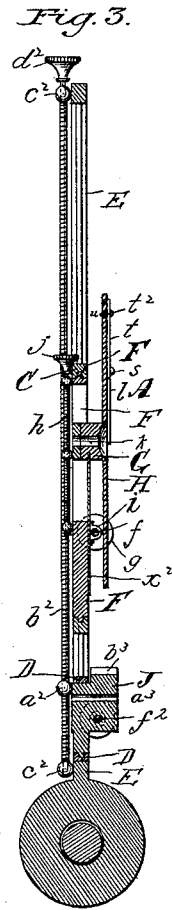
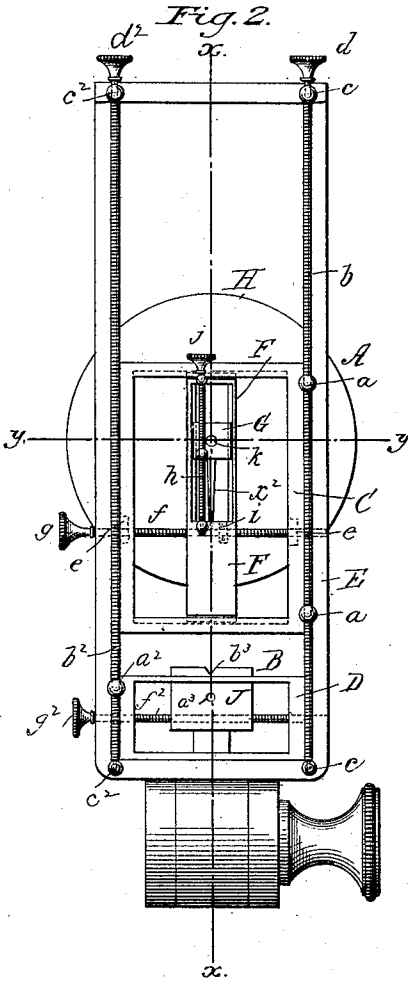
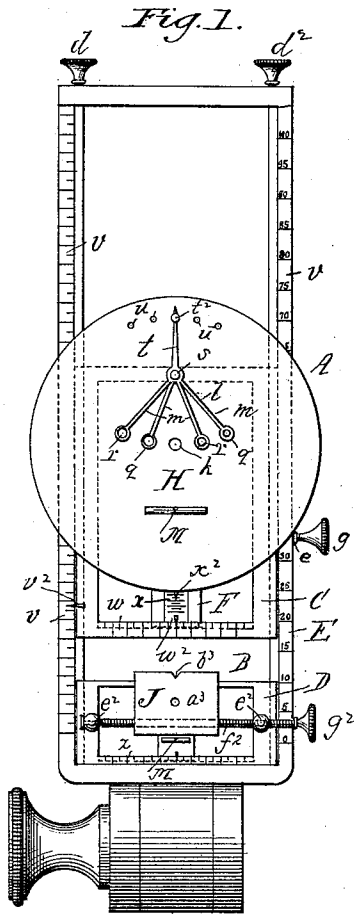


(No Model.)

G. W. WOOD & J. W. CARVER.
GUN SIGHT.

No. 388,166.

Patented Aug. 21, 1888.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE W. WOOD, OF GRANVILLE, NEW YORK, AND JAMES WOOD CARVER,
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GUN-SIGHT.

SPECIFICATION forming part of Letters Patent No. 388,166, dated August 21, 1888.

Application filed October 3, 1887. Serial No. 251,325. (No model.)

To all whom it may concern:

Be it known that we, GEORGE W. WOOD, of Granville, in the county of Washington and State of New York, and JAMES WOOD CARVER, of Pawlet, Rutland county, and State of Vermont, have invented a new and useful Improvement in Gun-Sights, of which the following is a full, clear, and exact description.

The object of the present invention is to provide in one attachment to be applied to a gun stock or barrel a sight which is applicable for use to secure accurate shooting either at short or at long range, and which may be used to gage the wind force across the range, and also to secure the advantages to be derived from either a peep or closed sight and an open sight, all substantially as will hereinafter appear, and be specifically pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front view of the sight. Fig. 2 is a rear view of same. Fig. 3 is a vertical section taken on the line xx , Fig. 2. Fig. 4 is a horizontal sectional view on line yy , Fig. 2.

In the drawings, A represents the rifle-sight, which is adapted for the longest ranges and closest shooting, and B the sight, more particularly adapted for use at shorter ranges, the parts constituting each sight being supported on and carried by frames C D, grooved or tongued and sliding vertically in a common frame, E, adapted by corresponding grooves or tongues therefor in the manner of a window-casing and sash.

As to the long-range sight A, it consists of its carrying-frame C, having lugs a engaging with a screw-spindle, b , secured in suitable bearings $c c$ of the common frame E, the turning of which by its head d causes the frame to be raised or lowered, a supplementary laterally-sliding frame, F, moving by tongue and groove in the frame C, and caused to travel horizontally by the engagement therewith of the horizontal screw-threaded spindle f , secured in suitable bearings, e , of the frame C, engaging a lug, i , of frame F, and having head g for convenience in turning it, a vertically-

sliding block, G, moving by tongue and groove in the supplemental frame F, and caused to travel up or down by turning the screw-spindle h , with which it engages, said spindle turning in fixed bearings of the supplemental frame F, and having a head, j , and an eye cup or disk, H, secured to said block G, in which is the peep or sight hole k , which hole also extends through the block G. The eye-hole k , through cup or disk H, is of a fairly-large size to afford free sighting through it; and l is a plate having fingers m , at the end of which is a small disk, q , each with a hole, r , therein, which holes are of varying sizes, but all smaller than the hole k in the disk-plate, the plate l being pivoted, as at s , having a handle-extension, t , provided at its back with a pin or spur, t^2 , for engagement with holes u in the disk-plate.

There is marked upon the side of the frame E a graduated scale, v , with which the sight-frame C registers, and also on said frame C is a graduated scale, w , with which the supplemental frame F registers, and, again, said supplemental frame may have a finely-graduated scale, x , with which the disk-plate block G registers, each by a pointer, $v^2 w^2 x^2$, the scales $v x$ for gaging elevations and the scale w for gaging wind forces.

As to the sight B, also arranged in combination with the device, it is composed of its carrying-frame D, having lug a^2 engaging with a screw-spindle, b^2 , secured in suitable bearings, c^2 , of the common frame E, the turning of which by its head d^2 causes the frame to be raised or lowered, and a supplemental laterally-sliding block, J, moving by tongue and groove in the frame D, and caused to travel horizontally by the engagement therewith of screw-threaded spindle f^2 , secured in suitable bearings e^2 of frame D, engaging the sliding block J and having head g^2 .

The frame D may register with the graduated scale v on frame E, and it has a horizontal graduated scale, z , with which the block J may register, to determine elevations and gage wind forces when employing the lower sight, B, the block J of which has sighting-hole a^2 , and also a notch, b^2 , either of which may be used through which to sight, as preferred.

Arranged upon any suitable part of either or both the sights A B, or upon their common carrying-frame E, may be located a spirit-level, *y*, by means of which it may be observed whether or not the gun-barrel is held level as to its central transverse line, as in shooting with elevated and laterally-arranged sights is most important, as is well known.

While the various sliding frames have been shown and described as moved by the engagement therewith of screw-threaded spindles, they may be moved in other ways, as by rack and pinion, as obvious, or made sufficiently close in their guides and simply pushed by hand into the desired positions, although the screw-threaded-spindle construction is most practical and effective in operation, and while all the frames sliding on each other are shown as provided with tongues and grooves, other forms of ways or guides may be substituted, it not being intended to limit the invention in that respect.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a gun-sight, the combination, with a main frame and a frame sliding in and vertically adjustable on said main frame, of a supplemental and laterally-sliding frame on the supplemental frame, and a vertically-adjustable sight-plate carried by the supplemental and laterally-sliding frame, substantially as herein shown and described.

2. The combination, with the frame E, of a frame, C, sliding vertically thereon, a supplemental frame, F, sliding laterally on said frame C, and a block, G, sliding vertically in said frame F, and a plate with sight-hole secured to said block G, substantially as described, for the purpose specified.

3. The combination, with the frame E, of a frame, C, sliding vertically thereon, a frame, F, sliding laterally on said frame C, and a block, G, sliding vertically on said frame F, and a plate secured to said block, a sight-hole passing through said plate and block, substantially as and for the purpose described.

4. The combination, with the frame E, having screw-spindle *b*, of a frame, C, provided with a lug, *a*, engaging said screw-spindle *b* and having a horizontal screw-spindle, *f*, a frame, F, engaging said screw-spindle *f* and having a vertical screw-spindle, *h*, and a block, G, engaging said screw-spindle and having attached thereto the sight-plate with sight-hole *h*, the said frames and block C, F, and G, adapted to slide, all substantially as and for the purposes described.

5. The combination, with the frame E, having a graduated scale on its sides, of a frame, C, sliding vertically in said frame E and provided with a graduated scale on its lower part, a frame, F, sliding laterally on said frame C and provided with a graduated scale on its lower part, a vertically-sliding block on the laterally-sliding frame F, and a plate having a sight-hole secured to said block, substantially as herein shown and described.

6. A gun sight consisting of the frame E, the closed sight A, vertically and laterally adjustable on the said frame, as herein described, and the open sight B, below the closed sight, and vertically and laterally adjustable on the frame E, substantially as herein shown and described.

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