W. LYMAN.

Sight for Fire-Arms.

No. 211,753. Patented Jan. 28, 1879.

fig. 1

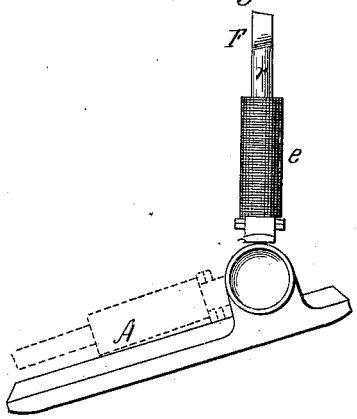


fig. 2

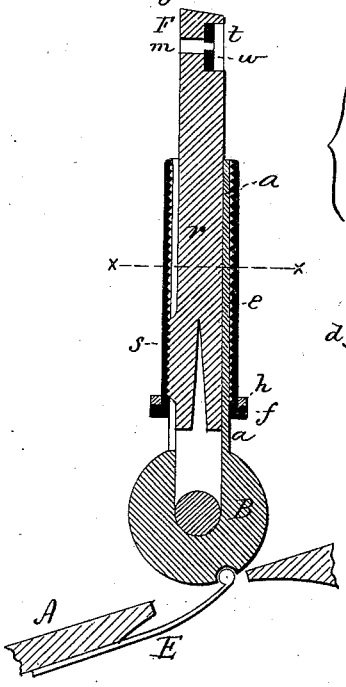


fig. 5

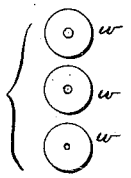


fig. 4

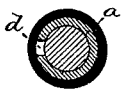
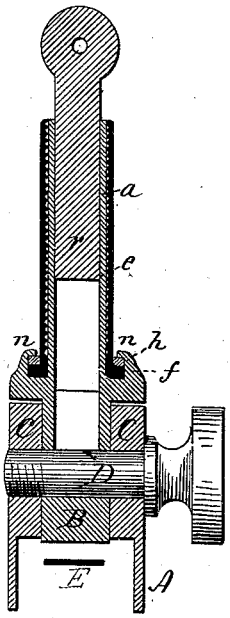


fig. 3



Witnesses,

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UNITED STATES PATENT OFFICE.

WILLIAM LYMAN, OF MIDDLEFIELD, CONNECTICUT.

IMPROVEMENT IN SIGHTS FOR FIRE-ARMS.

Specification forming part of Letters Patent No. **211,753**, dated January 28, 1879; application filed December 16, 1878.

To all whom it may concern:

Be it known that I, WILLIAM LYMAN, of Middlefield, in the county of Middlesex and State of Connecticut, have invented a new Improvement in Sights for Fire-Arms; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, side view; Fig. 2, vertical central section, enlarged; Fig. 3, transverse section, enlarged; Fig. 4, cross-section on line *x x* of Fig. 2; Fig. 5, collar for adjusting the opening of the sight.

This invention relates to an improvement in the rear sight for fire-arms, the object being simple construction and accurate adjustment; and it consists in the construction, as hereinafter described, and more particularly recited in the claims.

A is the base or plate by which the sight is attached to the arm, and is of common construction; B, the hinge for the sight, which is arranged between ears C C on the base in the usual manner, and through the ears and hinge a set-screw, D, is also arranged in the usual manner to bind the ears C C upon the hinge and hold the sight, whenever desirable. E is the usual spring beneath the base, which falls into a notch in the hinge when the sight is turned up for use.

The hinge part B extends above and over the ears, as seen in Fig. 3, and on this part is a stationary tube, *a*, with a vertical slot, *d*, in one side, as seen in Fig. 4. Over this tube is placed a sleeve, *e*, screw-threaded upon its inside and constructed with an annular flange, *f*, at its lower end, and onto this flange is set a collar, *h*, both sitting into a recess in the extension of the part B, and then the upper edge, *n*, of this extension is turned inward over the collar, so as to secure the sleeve upon the inner tube, and so as to allow the sleeve to be freely revolved, but to prevent longitudinal movement. F is the sight, which is preferably in form of a disk with an eye-opening, *m*. From this a shank, *r*, extends downward, and so as to fit closely into the inner tube, *a;* and on this shank *r* is a projecting rib, *s*, corresponding to the slot *d* in the inner tube, and so as to project through the said slot and engage with the inner screw-thread of the sleeve *e*, and so that by turning the sleeve *e* either to the right or left the sight will be raised or lowered accordingly.

The shank of the sight is graduated to indicate different points of elevation; and to enable a micrometer adjustment the flange *f* may be also graduated to indicate certain portions of revolution, and thereby fractionally divide the graduations on the shank.

To adjust the opening in the sight a recess, *t*, is made on the side, of larger diameter than the actual opening *m*. Fitted to this are several disks, *w*, with openings smaller than the openings *m*, the said disks each fitting the recess *t*, and so that either one may be introduced accordingly as the opening is required to be reduced or enlarged.

I claim—

1. The combination of the slotted tube hinged to the base, the internally screw-threaded sleeve arranged to revolve freely on said tube without vertical movement, the sight constructed with a shank fitting said tube, with a projection through the slot to engage the thread of the sleeve, substantially as described.

2. The combination of the tube hinged to the base, the internally-threaded sleeve arranged upon said tube, constructed with an annular flange at its lower end, projections from hinge part closed over said flange, and the sight constructed with a shank to move vertically in said tube and engage with the said sleeve, substantially as described.

WILLIAM LYMAN.

Witnesses:
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