(No Model.)

H. C. CUSHING.

SIGHTING ATTACHMENT FOR FIRE ARMS.

No. 294,770. Patented Mar. 11, 1884.

Fig. 1

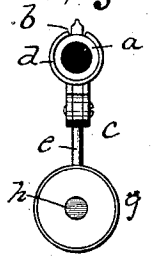


Fig. 2

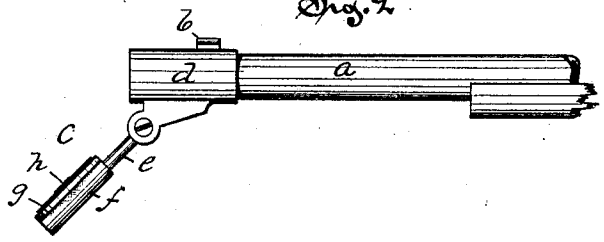


Fig. 3

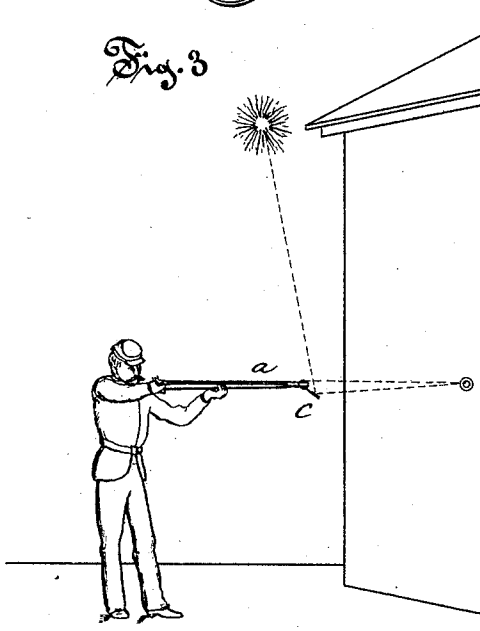
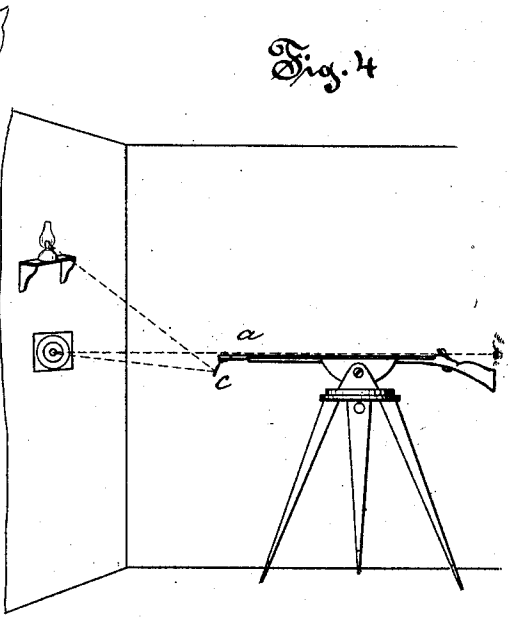


Fig. 4



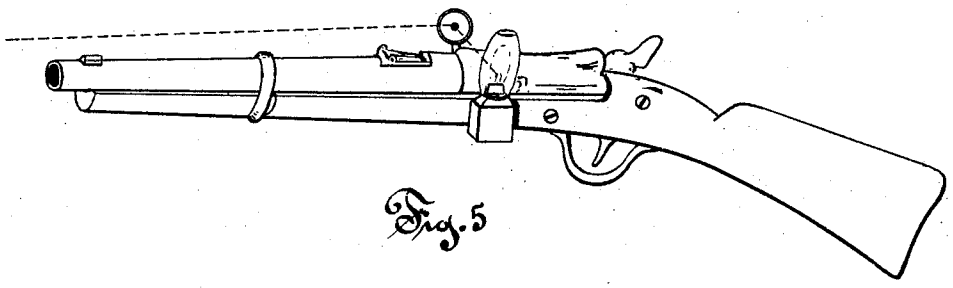


Fig. 5

Witnesses
W. M. Bjorkman
Edwin F. Clarke.

Inventor
Harry C. Cushing,
By Simonds & Burdett,
Atty's.

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

HARRY C. CUSHING, OF NEW LONDON, CONNECTICUT.

SIGHTING ATTACHMENT FOR FIRE-ARMS.

SPECIFICATION forming part of Letters Patent No. 294,770, dated March 11, 1884.

Application filed June 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, HARRY C. CUSHING, of New London, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Sighting Attachments for Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

Figure 1 is a side view of my device as applied near the muzzle of a rifle. Fig. 2 is a front view of same. Fig. 3 is a view illustrating the method of using my device in the sunlight. Fig. 4 is a view illustrating its use on an aiming-stand and with artificial light. Fig. 5 is a view showing a rifle with both reflector and light attached.

My invention relates especially to the class of devices used as mechanical aids in perfecting marksmen in rifle practice; and it consists of a reflecting-mirror adapted to be secured to a rifle or other fire-arm by swivel-connections, in such manner that a ray of light may be reflected in the line of the axis of the bore and upon the target.

In the accompanying drawings, the letter *a* denotes the barrel of a rifle; *b*, the front sight; *c*, the reflector as a whole, composed of the slitted metallic clamp-sleeve *d*, the arm *e*, pivoted to the sleeve, and fitted into a tubular socket, *f*, fast to the back of the mirror *g*. This mirror has a non-reflecting central spot, *h*, which may be formed by securing a piece of dull material, as paper, to its surface at that place, or in any desirable manner.

The above-described method of connecting the parts permits the free adjustment of the mirror, so that the plane of its surface is at any required angle with the axis of the bore of the rifle or other fire-arm to which it is attached, and this adjustment is evidently possible with various swivel-connections—as by ball-and-socket joints between the arm and other parts.

My improved device may be used to instruct recruits in aiming a rifle, holding on the target, and pulling the trigger, and is also valuable as an aid to skilled marksmen in testing and increasing the steadiness of their aim; and it may be used either in out-of-doors or armory practice.

To use my device on a fire-arm it is attached by means of the clamp to any desirable part, as near the muzzle, and the mirror so adjusted as to throw a ray of light, from any convenient source of light, in a line that will cause the line of sight and the dull spot in the circle of bright reflected light to intersect on the bull's-eye of the target. The marksman may then test his steadiness in holding on the target or the effect of pulling the trigger, as any swaying of the gun or change in its aimed position shows clearly in the movement of the shadow thrown by the reflector.

The lamp and reflector may both be attached to the gun on opposite sides, as shown in Fig. 5, and in that case the mirror will require but little change when once properly adjusted.

I claim as my invention—

1. The combination, with a rifle or other fire-arm, of the clamp-sleeve *d*, the arm *e*, pivoted to the sleeve, the tubular socket *f*, secured to the mirror-frame, and the mirror having the non-reflecting spot *h*, all substantially as described, and for the purpose set forth.

2. In combination, a rifle or other fire-arm, an adjustable reflector attached thereto, and a lamp also attached to the rifle, all substantially as described.

HARRY C. CUSHING.

Witnesses:

E. A. BANCROFT,

CHAS. L. BURDETT.