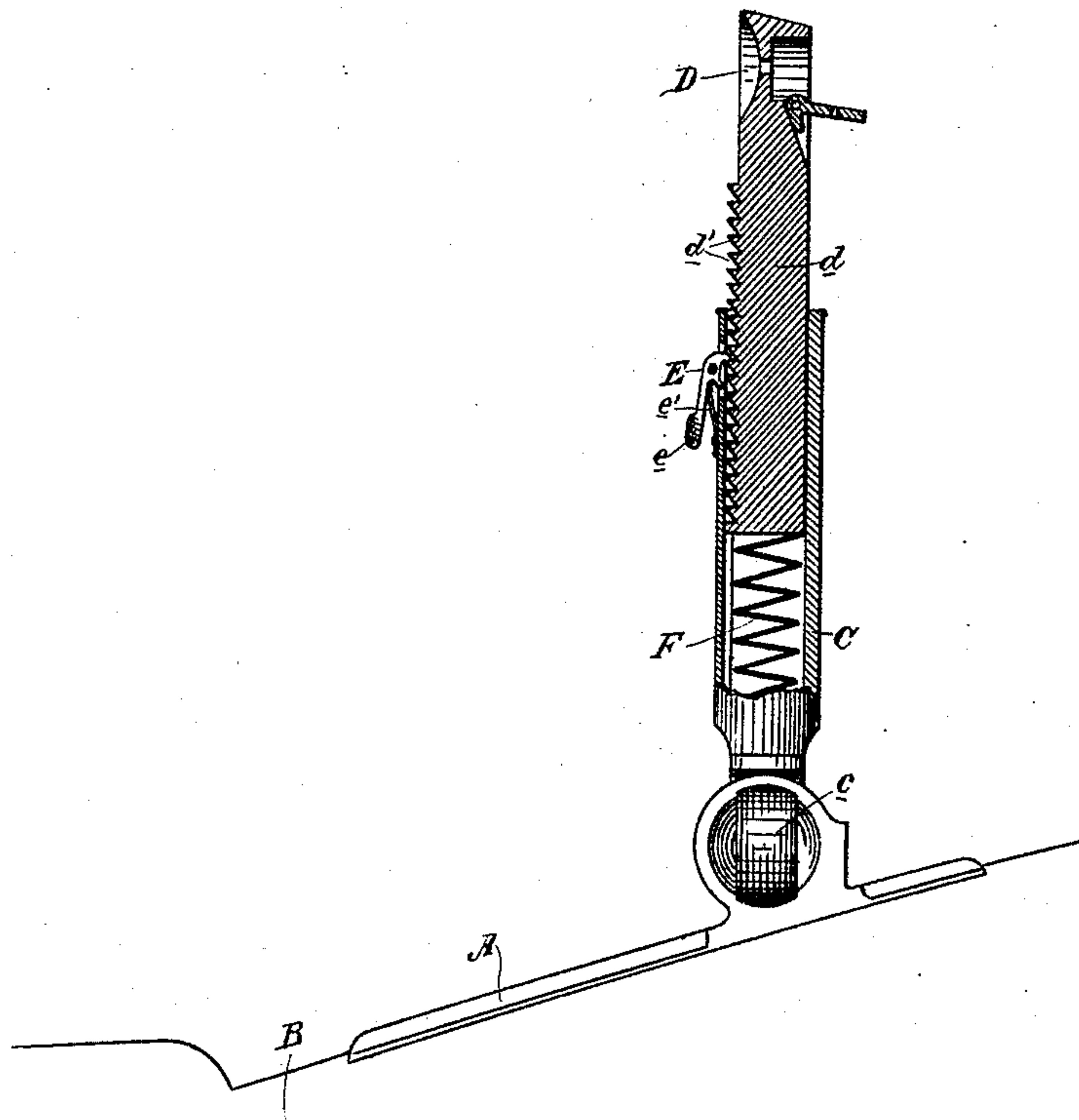


(No Model.)

F. W. DOBBEL.
SIGHT FOR FIRE ARMS.

No. 462,475.

Patented Nov. 3, 1891.



Witnesses,
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UNITED STATES PATENT OFFICE.

FREDERICK WILLIAM DOBBEL, OF PURISSIMA, CALIFORNIA.

SIGHT FOR FIRE-ARMS.

SPECIFICATION forming part of Letters Patent No. 462,475, dated November 3, 1891.

Application filed April 17, 1891. Serial No. 389,356. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK WILLIAM DOBBEL, a citizen of the United States, residing at Purissima, San Mateo county, State of California, have invented an Improvement in Sights for Fire-Arms; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of rear sights for fire-arms in which the sight is mounted and is vertically adjustable in a hollow standard hinged to a base which is secured to the gunstock.

My invention consists in the novel mechanism for effecting and controlling the vertical movement or adjustment of the sight, hereinafter fully described, and specifically pointed out in the claims.

The object of my invention is to provide a simple and effective means for the rapid adjustment of the sight. Quickness of action in this respect is of great importance, especially in hunting, as it often happens that the sight must be adjusted in the shortest possible time in order to have the gun in readiness for a sudden emergency.

The ordinary sight in use is too slow for emergencies, as its adjustment is effected by the turning of a screw-sleeve, which acts upon the threaded shank of the sight to raise or lower it. This movement is a slow one, and the necessity for its use may have passed before the adjustment can be effected.

Referring to the accompanying drawing for a more complete explanation of my invention, the figure is a vertical section of my sight, shown in its application to the gunstock.

A is a base-plate of suitable character secured to the gunstock B. To this base-plate is hinged at *c* a hollow standard or other suitable guide C, in which is mounted and adapted to move up and down the shank *d* of the sight D. On the shank *d* are ratchet-teeth *d'*, and with these engage the controlling-pawl E, which is pivoted in the standard C and has its operating end projecting therefrom and provided with a thumb-knob *e*, by which it may be readily operated. The pawl E is here shown as a double-pointed one. A spring *e'* holds the pawl securely to its engagement with the ratchet-teeth of the sight-shank. The en-

gagement of this pawl and the shape of the ratchet-teeth are such that the shank of the sight may be pressed downwardly, slipping by the points of the pawl in this movement; but the shank cannot rise because of the engagement of one of the points of the pawl with one of the ratchet-teeth. The other point of the pawl is free from the ratchet-teeth normally; but upon operating the pawl said point is pressed into engagement with a lower tooth at the same moment that its other point is released from an upper tooth, whereby the movement of the shank is controlled and can only rise one tooth at a time.

A spring F in the base of the standard bears up under the sight-shank and tends to raise it constantly.

The operation is as follows: When the sight is to be lowered, it is simply pressed down, its shank slipping by the pawl, and it may be pressed down to any point desired. To raise the sight the pawl is pressed, whereby one of its points is released from the ratchet-tooth of the shank, while its other point is pressed in over a tooth lower down, and the shank rises under the power of the spring to engage said tooth with the second point. This allows the sight to rise one notch, and the pawl being thereupon released will hold it at that point; or, if a farther rise be desired, the pawl can be operated a second time to permit the sight to rise one tooth more. Thus a rapid operation of the pawl can effect the release of the shank a tooth at a time and allow it to rise as quickly as may be desired.

It will be seen from this construction that no time need be lost in the adjustment of the sight. The gun need not be removed from the shoulder when adjusting the sight. There is no necessity to look at the sight when adjusting it, as it is definitely known how much it is elevated at every operation of the thumb-knob. Consequently the hunter can watch his game, measure the distance, and adjust the sight accordingly all at the same time. It is conveniently operated, as the thumb of the right hand naturally rests on or near the thumb-knob when aiming the gun.

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

1. The combination of a standard, a vertically-movable sight fitted thereto having a shank with ratchet-teeth, a spring operating upon said shank to move it, and a pawl engaging the ratchet-teeth of the shank and controlling its movement, substantially as herein described.

2. The combination of a standard, a vertically-movable sight fitted thereto having the shank with ratchet-teeth, the spring acting on said shank to move it, and the double-pointed pawl engaging the teeth of the shank and controlling its movement one tooth at a time, substantially as herein described.

3. The combination of the hollow standard, the sight having the shank fitted in said standard and movable up and down therein, said shank having the ratchet-teeth, the spring in the hollow standard operating under the shank of the sight to move it, and the controlling-

pawl pivoted in the standard and engaging the ratchet-teeth of the sight-shank to control its movement, substantially as herein described.

4. The combination of the hollow standard, the sight having the shank mounted and adapted to move up and down in said standard, said shank having the ratchet-teeth, the spring in the base of the standard acting under the shank to raise the sight, and the spring-controlled double-pointed pawl pivoted in the standard and engaging the ratchet-teeth of the sight-shank to control its vertical movement, substantially as herein described.

In witness whereof I have hereunto set my hand.

FREDERICK WILLIAM DOBBEL.

Witnesses:

THOS. H. YATES,
HERMUN JORDAN.