

No. 810,581.

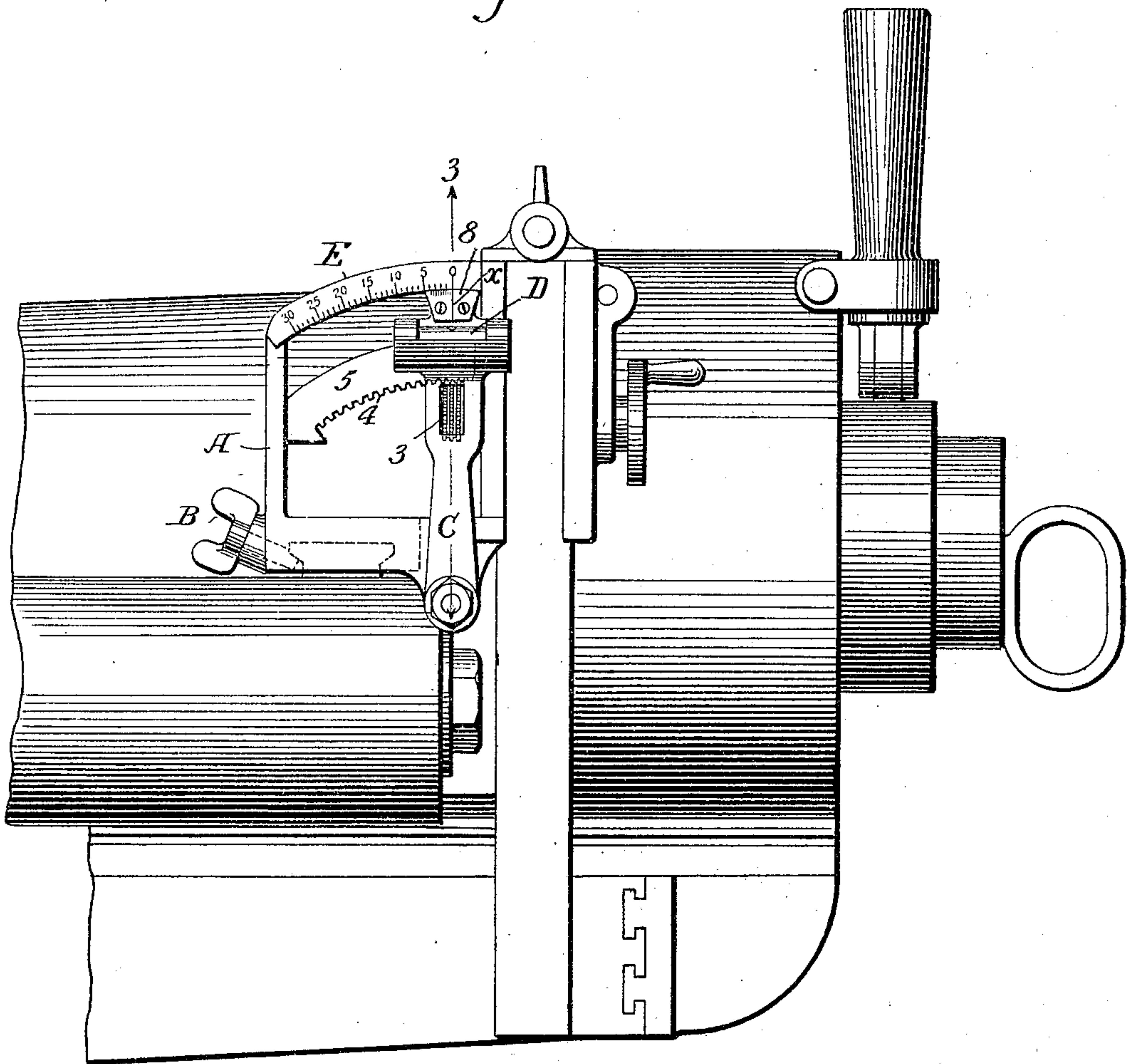
PATENTED JAN. 23, 1906.

R. P. STOUT & F. G. HUGHES.
SIGHTING ATTACHMENT FOR GUNS.

APPLICATION FILED AUG. 20, 1903.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 2

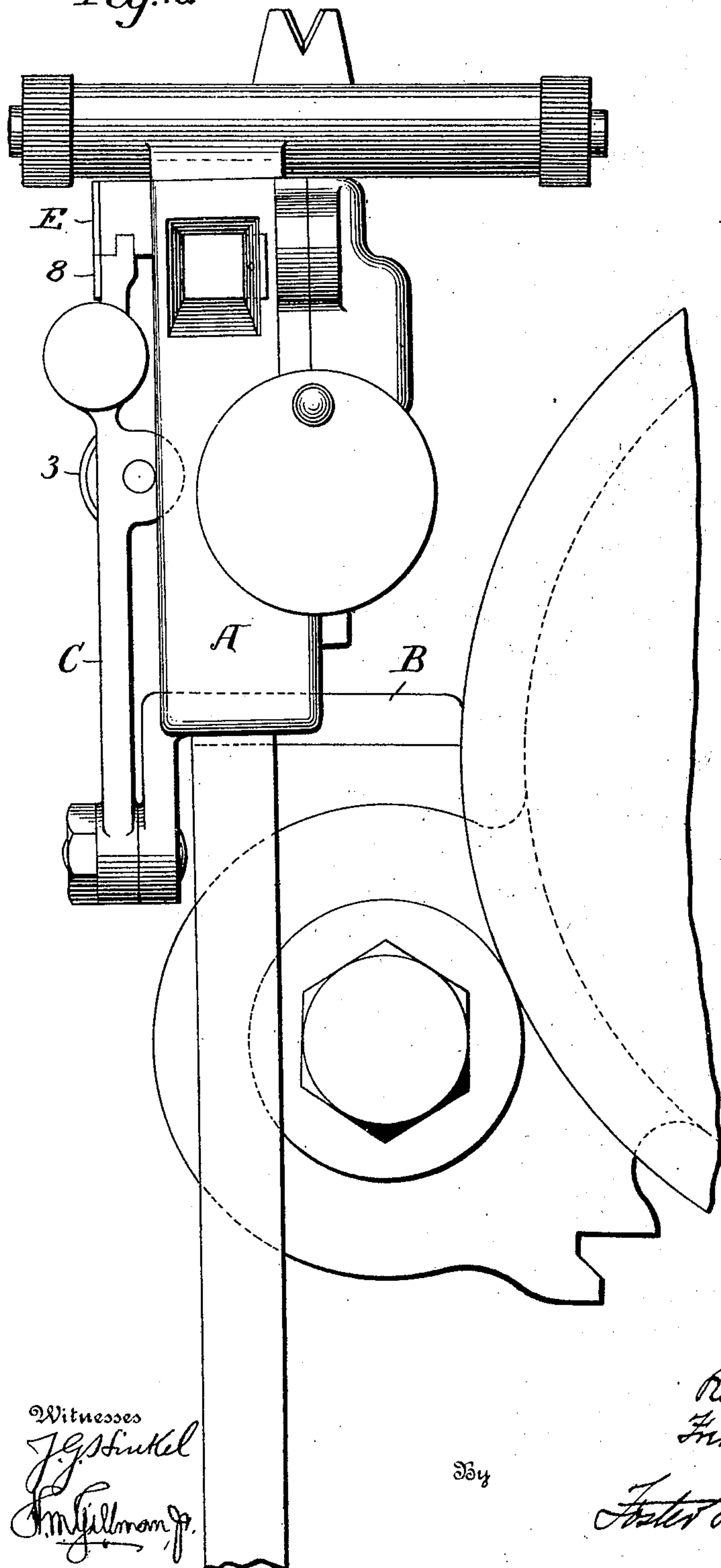
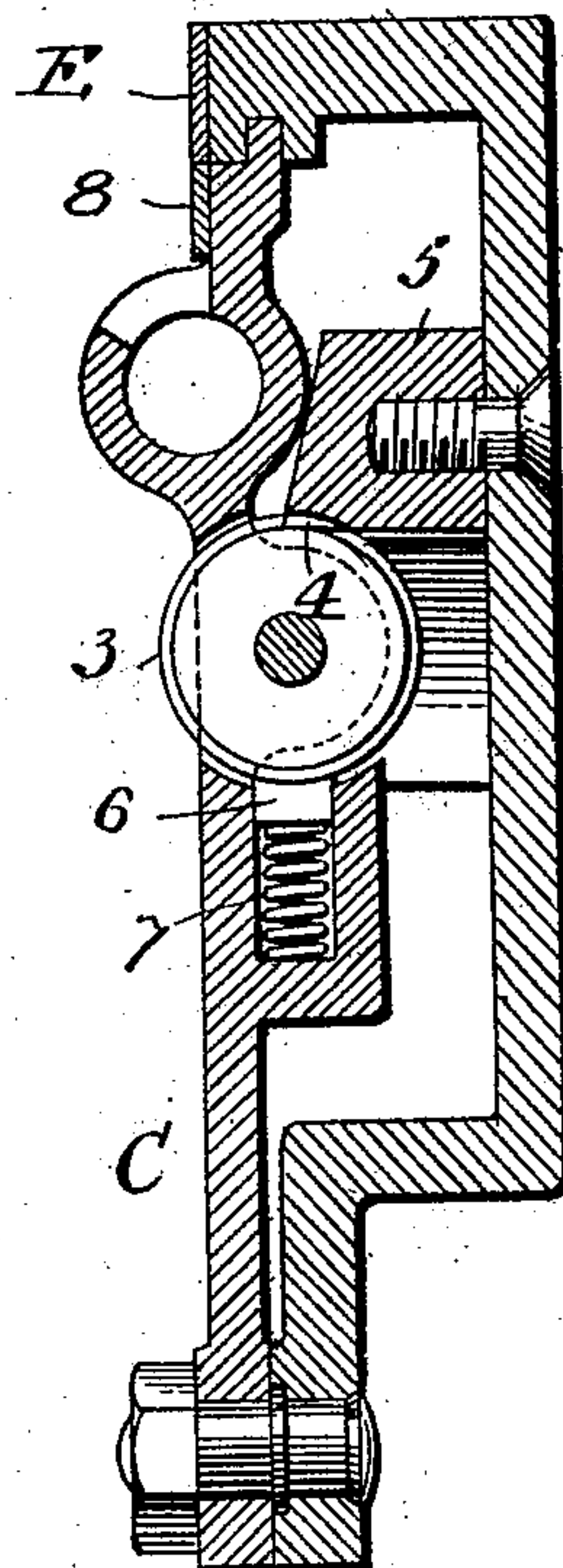


Fig. 3



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UNITED STATES PATENT OFFICE.

ROBERT P. STOUT AND FREDERICK G. HUGHES, OF SOUTH BETHLEHEM, PENNSYLVANIA, ASSIGNORS TO BETHLEHEM STEEL COMPANY, OF SOUTH BETHLEHEM, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

SIGHTING ATTACHMENT FOR GUNS.

No. 810,581.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed August 20, 1903; Serial No. 170,206.

To all whom it may concern:

Be it known that we, ROBERT P. STOUT and FREDERICK G. HUGHES, citizens of the United States, residing at South Bethlehem, in the county of Northampton and State of Pennsylvania, have invented certain new and useful Improvements in Sighting Attachments for Guns, of which the following is a specification.

Our invention relates to means for insuring the adjustment of a gun at any desired angle; and it consists of a pivoted arm carrying a level and movable over a graduated arc carried by the gun, as fully set forth hereinafter and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a gun with the attachment. Fig. 2 is a rear view, and Fig. 3 is a transverse section on the line 3 3, Fig. 1.

A frame A is secured by a clamp B or otherwise to the cradle of the gun, and to the frame near the lower part is pivoted an arm C, carrying a level D, which, as shown, is a spirit-level. A lip 8 at the upper of the arm has a vernier-scale and travels over a graduated arc E on the frame A.

In using the instrument the arm C is set so that the index-line x of its scale coincides with the graduation on the scale E, which indicates the desired angle of elevation of the gun, and the latter is then elevated until the level indicates a horizontal position, when the gun will be at the proper elevation.

The arm C may be adjusted by any suitable means. As shown, it carries a worm 3, which engages a curved worm-rack 4 on a segment 5 of the frame, the threads of the worm being serrated on the periphery and projecting beyond the face of the arm, so that the worm can be turned by the finger. To prevent the worm from turning too easily, a spring-brake bears on the same. As shown, the brake has a shoe 6, pressed upward against the worm by a spring 7.

While the frame A may be connected to or form part of the cradle, it is preferably detachable, so as to constitute an attachment applicable to any gun. The gun is provided

with any usual or suitable sighting appliances.

Without limiting ourselves to the precise construction and arrangements of parts shown and described, what we claim as our invention is—

1. A sighting device for guns consisting of a frame having a graduated arc, a pivoted arm one end of which travels over the arc, a level carried by the arm, means for moving the arm over the arc comprising a worm carried by the arm, a worm-rack engaged by the worm and carried by the frame, and a spring-brake engaging the worm, substantially as set forth.

2. A sighting device for guns, consisting of a frame having a graduated arc, a pivoted arm one end of which travels over said arc, a level carried by said arm, a rack secured to said frame and located between the pivot of said arm and said arc, and a worm-wheel carried by said arm and engaging with said rack, substantially as set forth.

3. A sighting device for guns, comprising a frame having a graduated arc, a pivoted arm one end of which travels over said arc, a rack secured to said frame and located between the pivot of said arm and said arc, a worm-wheel carried by said arm and engaging with said rack, and a level secured to said arm between said worm-wheel and the end of said arm which travels over said arc, substantially as set forth.

4. A sighting device for guns, comprising a frame having a graduated arc, a pivoted arm one end of which travels over said arc, a level carried by said arm, a rack secured to said frame, a worm-wheel carried by said arm and adapted to engage with said rack, a brake-shoe mounted in said arm and movable longitudinally thereof to engage with said worm, and means for forcing said shoe against said worm, substantially as set forth.

5. A sighting device for guns, comprising a frame having a graduated arc, a pivoted arm one end of which travels over said arc, a rack secured to said frame and located between the pivot of said arm and said arc, a worm-wheel carried by said arm, said worm-wheel being

adapted to engage with said rack and located
between the pivot of said arm and said rack,
and a level secured to said arm between said
worm and the end of said arm which travels
5 over said arc, said worm being mounted upon
the back of said arm and projecting through
a hole therein so that it may be engaged
from the front, substantially as set forth.

In testimony whereof we have signed our
names to this specification in the presence of 10
two subscribing witnesses.

ROBERT P. STOUT.

FREDERICK G. HUGHES.

Witnesses:

H. R. COLLINS,

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