

No. 638,007.

Patented Nov. 28, 1899.

D. H. DARLING.
GUN SIGHT ATTACHMENT.

(Application filed Feb. 27, 1899.)

2 Sheets—Sheet 1.

(No Model.)

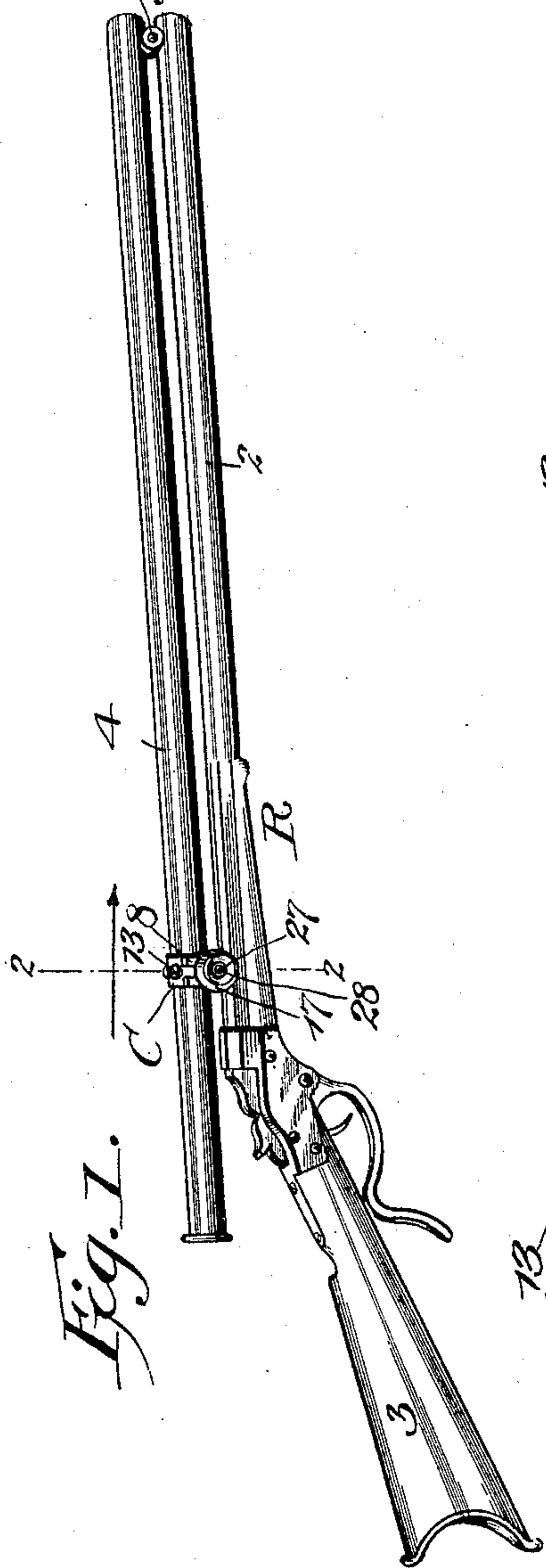


Fig. 1.

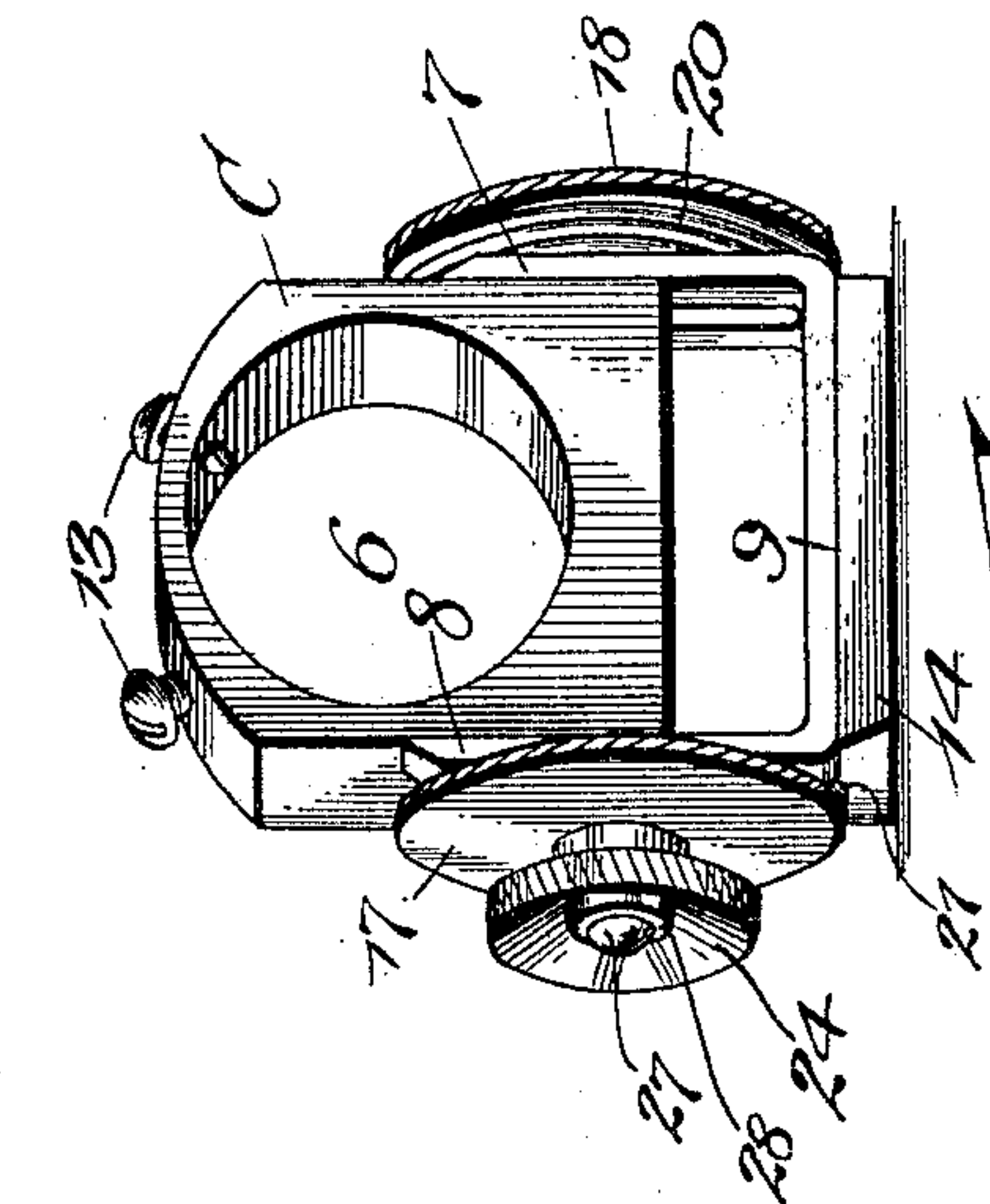


Fig. 3.

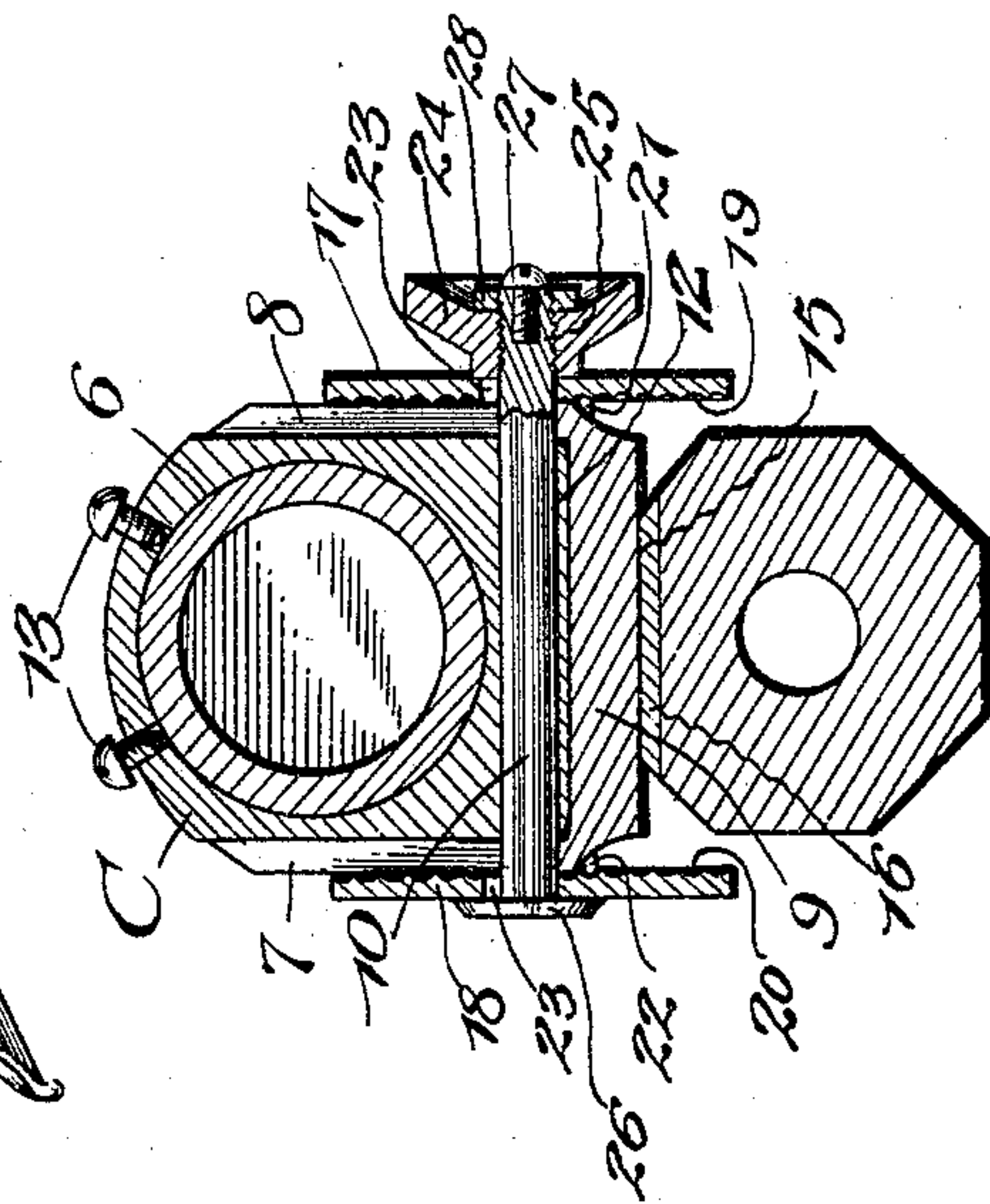


Fig. 2.

Witnesses

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2 Sheets—Sheet 2.

Fig. 4.

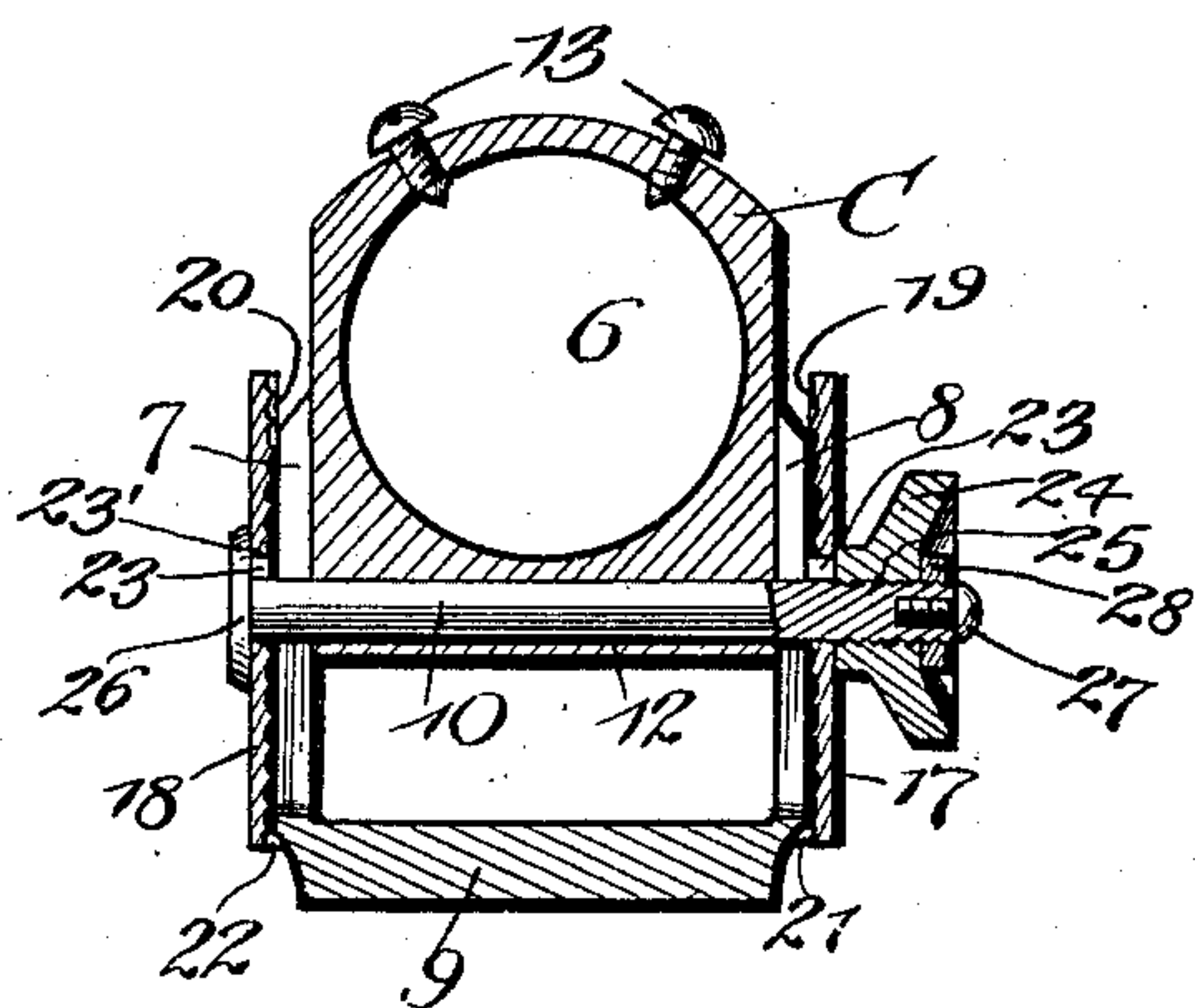


Fig. 5.

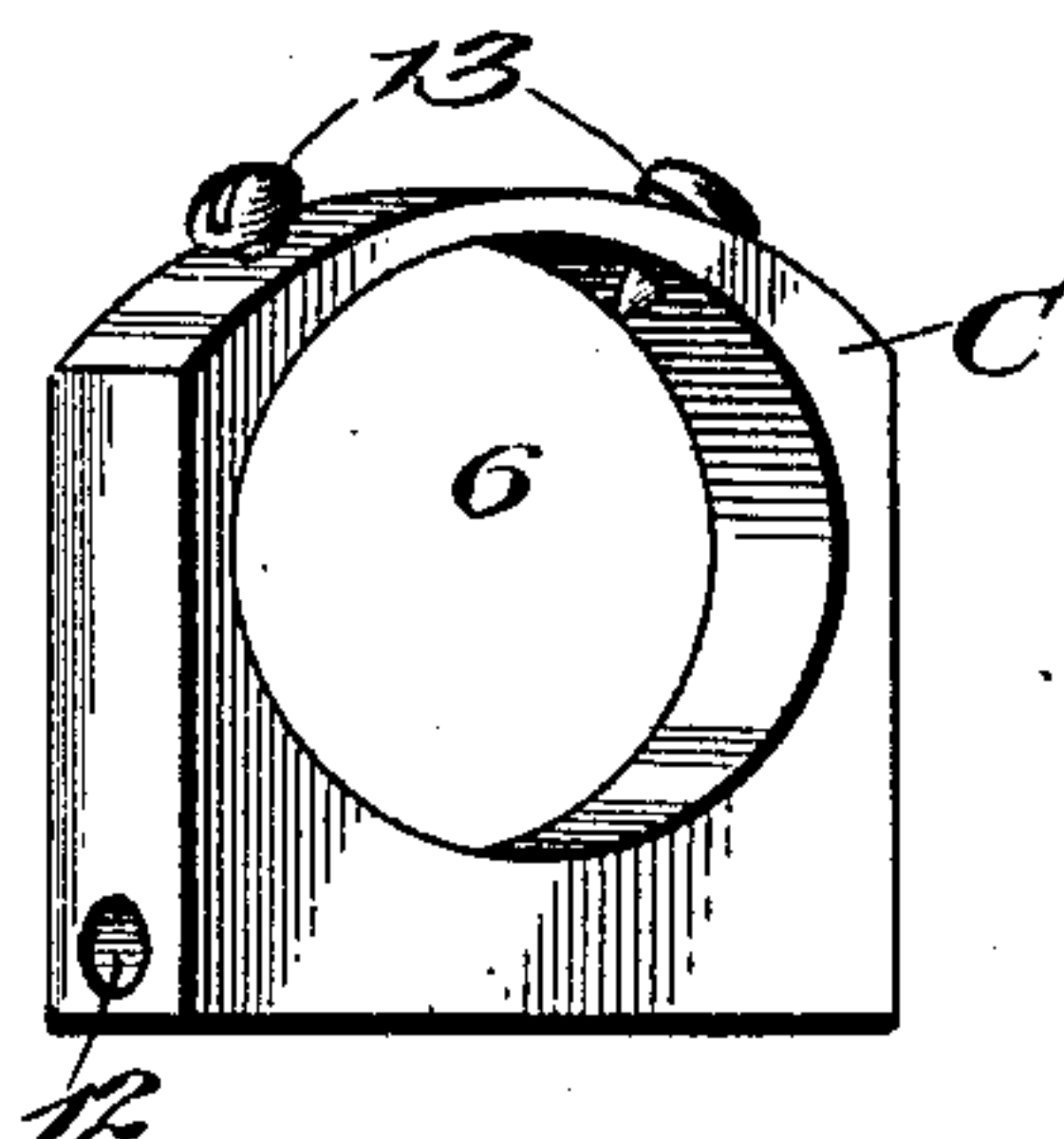


Fig. 6.

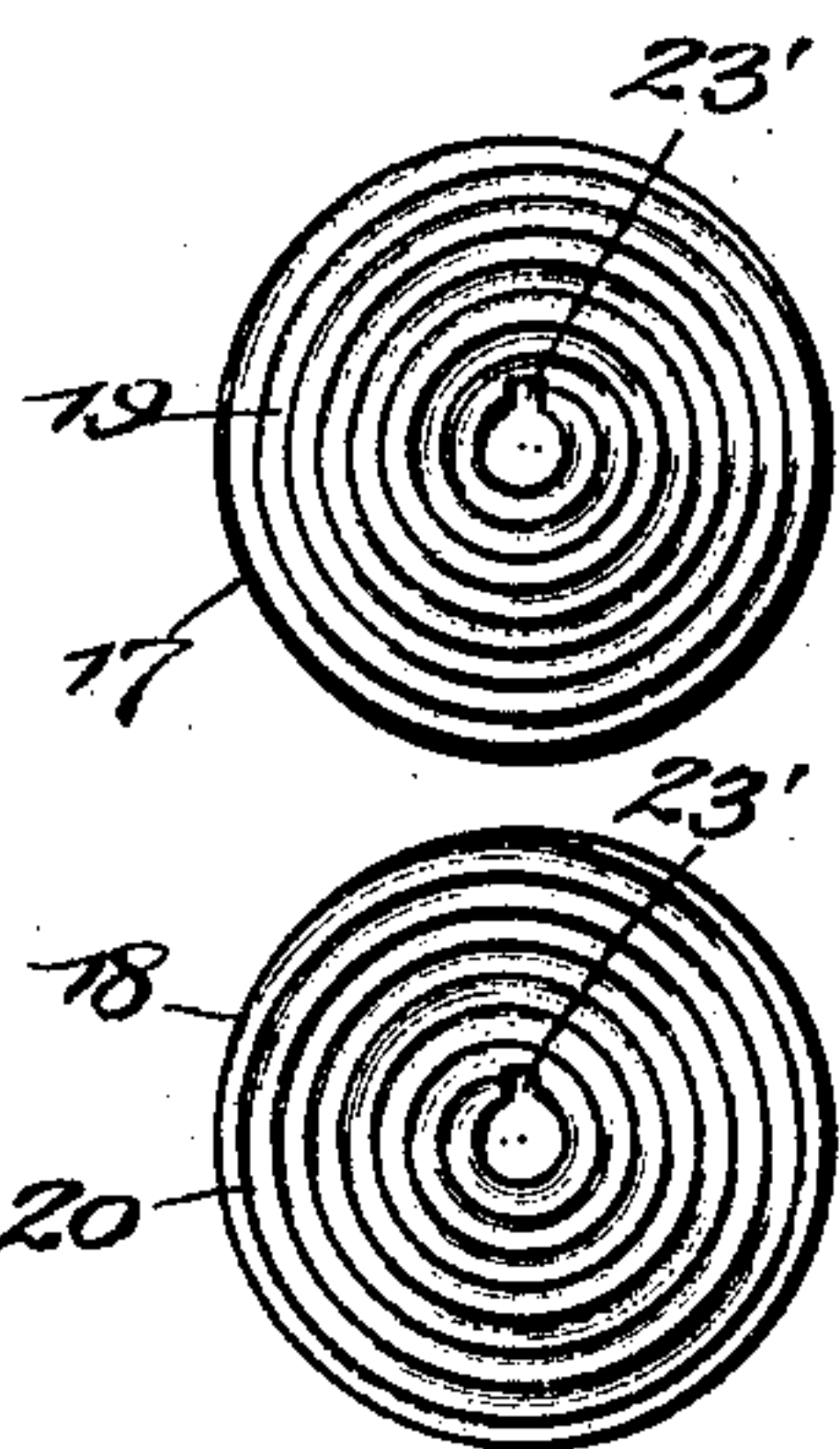
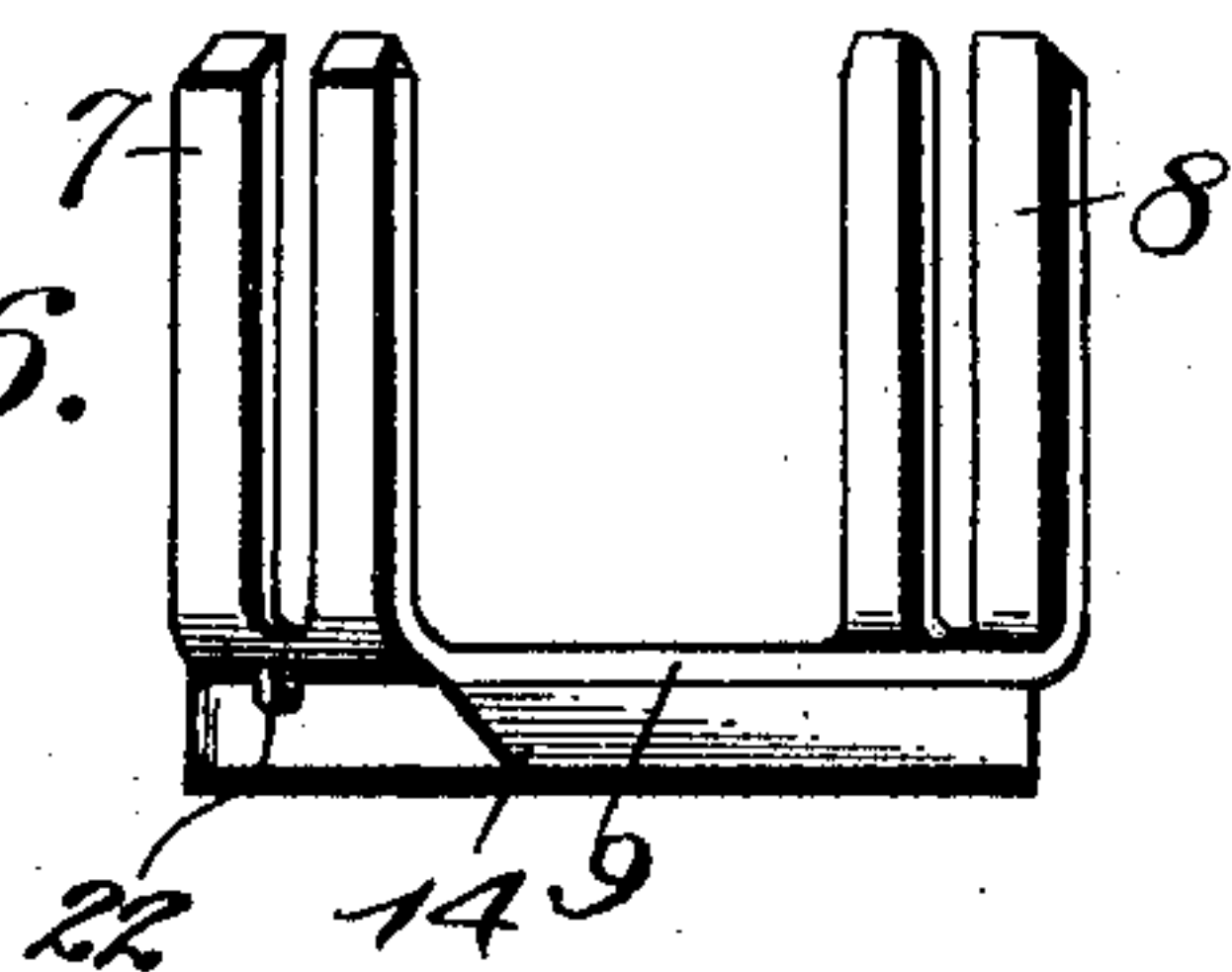
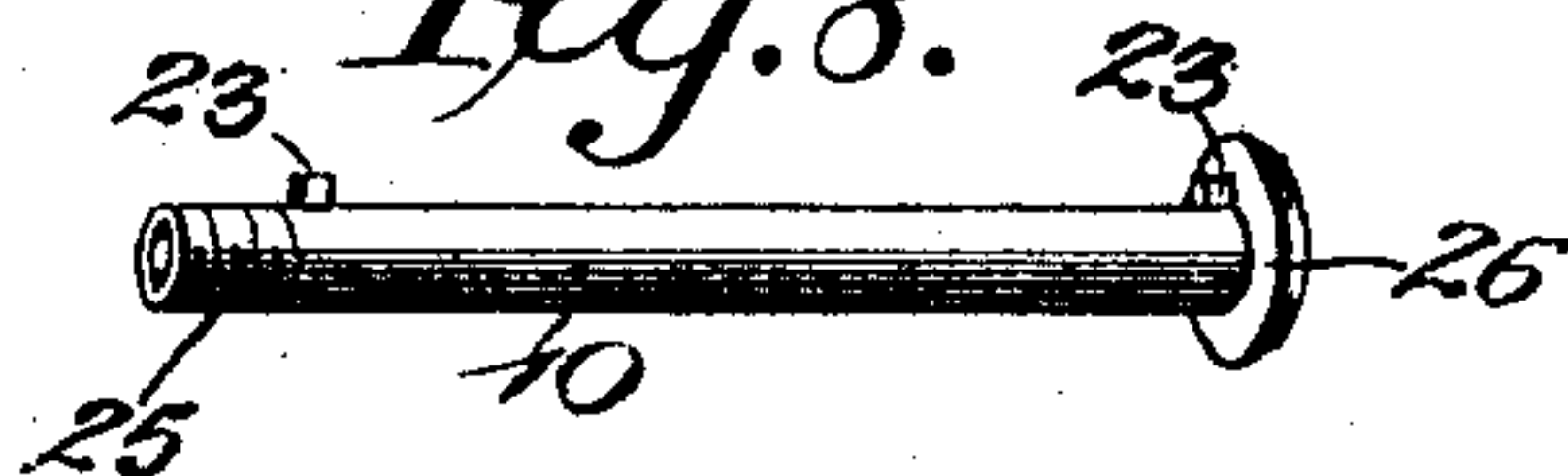


Fig. 7.

Fig. 8.



Witnesses

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UNITED STATES PATENT OFFICE.

DEXTER H. DARLING, OF GUILFORD, NEW YORK, ASSIGNOR TO HELEN L. DARLING, OF SAME PLACE.

GUN-SIGHT ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 638,007, dated November 28, 1899.

Application filed February 27, 1899. Serial No. 707,048. (No model.)

To all whom it may concern:

Be it known that I, DEXTER H. DARLING, a citizen of the United States, residing at Guilford, in the county of Chenango and State of New York, have invented a new and useful Gun-Sight Attachment, of which the following is a specification.

This invention relates to sighting attachments for rifles and other ordnance articles; and the object of the invention is to provide a simple and efficient operating mechanism for quickly adjusting the sight relatively to the gun-barrel and for firmly maintaining the same in its adjusted position and for also insuring the accurate position of the sight relative to the barrel or other part to which it is applied.

The invention involves as one of its features and in combination with a standard which may be secured to the barrel or other part of a gun or other firing device a sighting member, a carrier for the latter sustained by the standard, and two independent and preferably simultaneously active devices located at opposite sides of the standard, and each of which is operable for adjusting said carrier and for sustaining the same at opposite sides thereof, whereby the accurate relation between the sight and the gun-barrel is assured in the various adjustments of the sight. In the present case the adjusting devices to which I have referred consist of oppositely-threaded parts, and they are preferably rotary scroll wheels or disks movable with the sight-carrier and each adapted to receive a pin or stud fixed to the standard or other stationary part. By turning either one of these wheels the adjustment of the sight will follow, and when the latter is properly set it will be held in such position by a suitable locking device constituting part of the invention. In addition to securing the accurate positioning of the sight relative to the part to which it is applied the attachment described is particularly adapted to right or left handed shooters, as either can manipulate the most convenient scroll-wheel with his free arm without removing the piece from the shoulder. The sighting attachment may be of any construction, although I prefer to employ a telescope for this purpose.

With these ends in view the invention con-

sists in the novel combination of elements and in the construction and arrangement of parts, which will be hereinafter fully described and claimed.

To enable others to understand the invention, I have illustrated the preferred embodiment thereof in the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a perspective view of a rifle equipped with my sighting attachment. Fig. 2 is a transverse section taken in the line 2 2, Fig. 1. Fig. 3 is a perspective view of the standard removed from the gun, the sight-carrier, and the adjusting devices for the latter in assembled relation, the sight-carrier being illustrated as adjusted a slight distance above the base-piece of the standard. Fig. 4 is a transverse central section through the same. Fig. 5 is a perspective view of the carrier or block sustaining the sight. Fig. 6 is a similar view of the standard for said carrier or block. Fig. 7 is a face view of the scroll-wheels, and Fig. 8 is a perspective view of the supporting-shaft for said scroll-wheels.

Like characters denote like and corresponding parts in each of the several figures of the drawings.

In the drawings I have represented a rifle of ordinary construction to which my invention may be applied and which is provided with the usual barrel 2 and the stock 3, the two parts being secured together in some convenient or well-known manner.

As hereinbefore set forth, the sighting attachment may be of any suitable kind, and it is represented herein as consisting of a telescope 4, the length of which exceeds somewhat that of the barrel, and which is hinged, as at 5, near the front end of the barrel, although the manner of supporting the telescope may be other than that illustrated. The eyepiece of the telescopic sight 4 is located at a point to the rear of the end of the barrel, and in the present case it is adjusted vertically by raising or lowering said telescopic-sight relatively to the barrel.

The sight 4 passes through the opening 6 in the carrier or block C, which is vertically slidable between the upright arms 7 and 8, located at opposite sides of the standard 9

and bifurcated, and between the branches of the bifurcations a supporting shaft or spindle 10 for the carrier C is disposed. The opposite ends of the shaft extend outward beyond the upright bifurcated arms 7 and 8 of the standard 9 and carry adjusting devices, hereinafter described, and said shaft extends through the transverse opening 12, formed near the lower side of the sight carrier or block C.

The telescopic sight 4 is held in fixed position relative to its carrier by means of set-screws, as 13, passing through the upper side of the carrier, and the lower ends thereof being adapted to engage the periphery or outer surface of the sight. It will be evident that by raising or lowering the carrier or block C the vertical adjustment of the sight relative to the barrel will follow.

The under side of the standard 9 is provided with the tongue 14, closely fitting within the correspondingly-shaped groove 15, formed in the plate 16, which can be secured in some suitable manner to the gun-barrel or other part to which the device is applied.

The shaft or spindle 10 is provided upon its projecting ends with the wheels or disks 17 and 18, the first-mentioned of which has a right-hand thread 19 in the form of a scroll or spiral upon its inner face, and the wheel 18 is provided with an oppositely-disposed or left-handed thread 20, also in the form of a scroll, and these threads are adapted to cooperate with the pins or studs 21 and 22, fixed to the opposite sides of the standard, said pins being adapted to project into the grooves or spaces between the two oppositely-disposed threads 19 and 20. The projecting-ends of the carrier-supporting shaft 10 are provided with keys, as 23, adapted to fit in corresponding keyways 23' of the two scroll-wheels 17 and 18, whereby the latter will be held against rotation relative to the shaft which sustains them.

From the preceding description it will be apparent that by turning the scroll-wheel 17 to the right or the scroll 18 to the left the elevation or depression of the block or carrier C, and consequently of the barrel 2, will follow.

For the purpose of maintaining the parts in their adjusted positions I provide a suitable locking device, as the nut 24, in engagement with the threaded end 25 of the shaft 10, the latter having at its opposite end the stop or shoulder 26, which is adapted to abut against the outer face of the scroll-wheel 18. By turning the nut 24 to the right the scroll-wheel 18, through the stop or shoulder 26, is drawn against the adjacent face of the bifurcated arm 8, while the scroll-wheel 17 is forced against the bifurcated arm 7, thereby firmly locking the parts in the desired position. By turning the nut 24 the parts 17 and 18 may be free to turn, so that the adjustment of the carrier, and consequently of the sight movable therewith, can be obtained.

The locking-nut 24 serves by a very slight

turn to either lock or release the scroll-wheels 17 and 18, and it is secured in place by the check-nut 27, a washer 28 being disposed between these parts and said check-nut being in threaded engagement with the shaft 10 in proximity to the locking-nut 24.

The mechanism described is simple and serves to sustain the carrier, and consequently the sight, in correct position with respect to the gun-barrel or analogous member, and at the same time the adjustment of the sight can be effected with facility and rapidity, while the parts can be maintained in their adjusted positions with rigidity.

Changes in the form, proportion, size, and the minor details of construction within the scope of the appended claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described the invention, what I claim is—

1. In a device of the class specified, the combination with a standard, of a sighting device, a carrier for the latter sustained by the standard, and two independent and oppositely-threaded adjusting devices, engaging the standard for adjusting the carrier with respect thereto, substantially as described.

2. In a device of the class specified, the combination with a standard, of a sighting device, and two independent scroll-wheels connected with and operable for adjusting said sighting device, the threads of said wheels being oppositely disposed and engaging the standard, substantially as described.

3. In a device of the class specified, the combination with a sight and its support, of means for adjusting the sight and its support, said means involving a scroll-wheel, carried by one of said parts and engaging the other part with its threads, substantially as described.

4. In a device of the class specified, the combination with a sight, of means for adjusting the same, said means including a threaded operating device, and a fixed pin disposed in the groove between the thread, substantially as described.

5. In a device of the class specified, the combination with a sight, of a carrier for said sight provided with a shaft, a support for the carrier and adjusting means for the carrier including two independent simultaneously active threaded devices carried by the opposite ends of said shaft, with their threads engaging the support, substantially as described.

6. In a device of the class specified, the combination with a standard having upright arms, of a carrier having an opening and supported between said upright arms, a shaft extending in said opening and said upright arms and projecting beyond the latter, two scroll-wheels carried by the extended ends of the shaft, fixed pins on the standard for engaging the scroll-wheels, and a sight sustained by the carrier, substantially as described.

7. In a device of the class specified, the com-

5 bination with a standard having upright arms,
of a sight, a carrier for said sight slidably
mounted on said arms and provided with a
shaft extending through the arms, adjusting
10 devices carried by the shaft and adapted to
slide the carrier on said arms, a stop at one
end of the shaft, and a locking-nut at the op-
posite end of said shaft adapted to hold the
adjusting devices against movement, sub-
stantially as described.

15 8. In a device of the class specified, the com-
bination with a grooved plate, of a standard
having a tongue fitting in the groove in said
plate and provided with upright arms, a sight,
a carrier for said sight disposed between said
upright arms and provided with a shaft pass-

ing through said arms, two scroll-wheels se-
cured to the shaft near the opposite ends
thereof, pins on the standard adapted to en-
gage said scroll-wheels, a stop on one end of 20
the shaft, a locking-nut, and a check-nut on
the other end of said shaft, and set-screws
supported by the carrier for engaging the
sight, substantially as described.

In testimony that I claim the foregoing as 25
my own I have hereto affixed my signature in
the presence of two witnesses.

DEXTER H. DARLING.

Witnesses:

W. P. SHELTON,
J. A. DECKER.