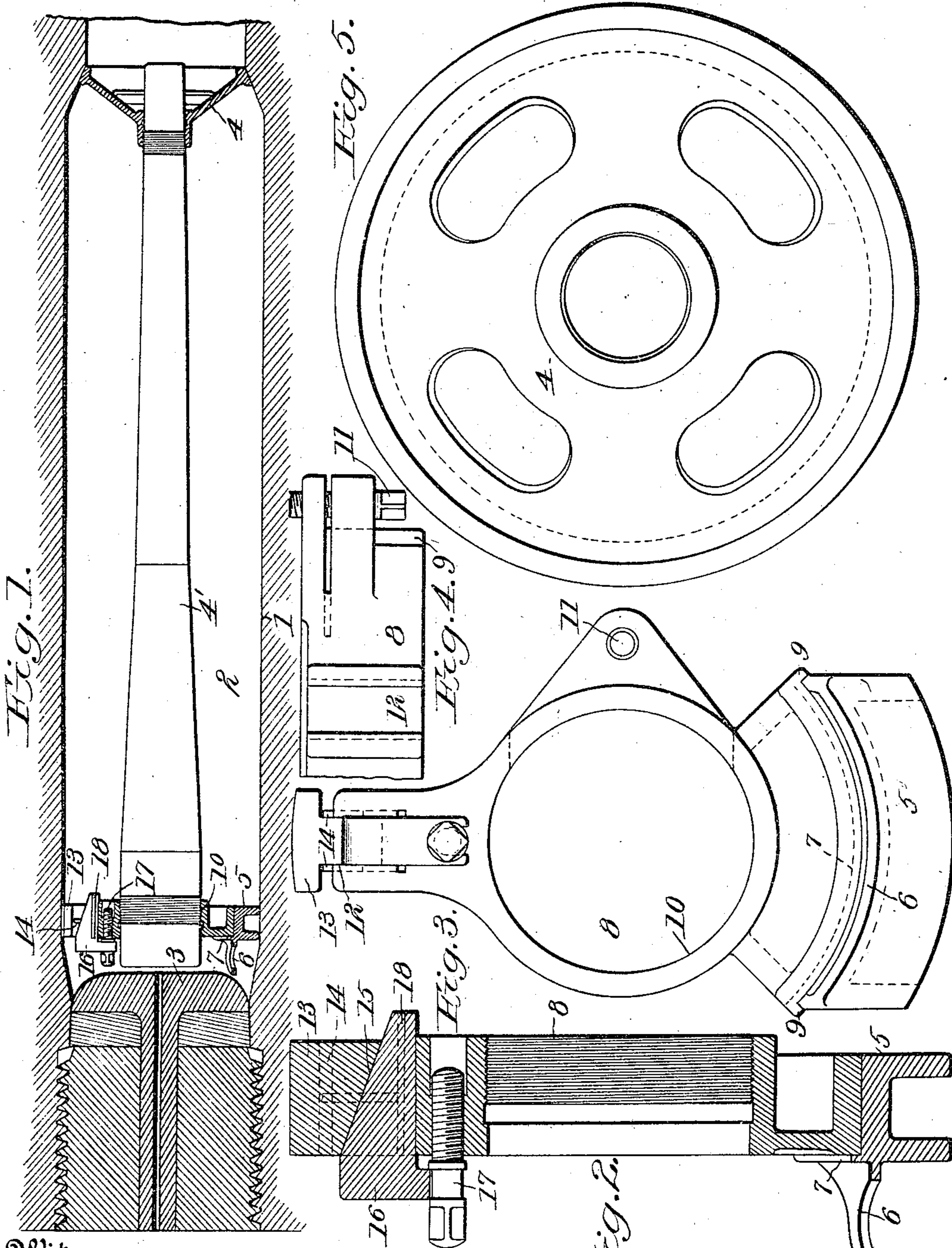


No. 754,412.

PATENTED MAR. 15, 1904.

W. H. BEVANS.
SUBCALIBER ATTACHMENT.
APPLICATION FILED JUNE 8, 1903.

NO MODEL.



Witnesses

C. H. Walker,
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UNITED STATES PATENT OFFICE.

WILLIAM H. BEVANS, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO
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N. Y., A CORPORATION OF NEW YORK.

SUBCALIBER ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 754,412, dated March 15, 1904.

Application filed June 8, 1903. Serial No. 160,494. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BEVANS, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Subcaliber Attachments, of which the following is a specification.

This invention relates to improvements in subcaliber attachments; and the object is to provide improved means for locking the subcaliber-tube in position in the gun with which it is used.

With the above object in view the invention consists in the novel features of construction hereinafter fully described, particularly pointed out in the claims, and clearly illustrated by the accompanying drawings, in which—

Figure 1 is a sectional view showing my improved subcaliber attachment in position in the chamber of a gun; Fig. 2, an enlarged sectional view of the rear support or adapter for the subcaliber-tube; Fig. 3, a face view of the same; Fig. 4, a detail of the lock for clamping the tube in the adapter, and Fig. 5 a face view of the forward support or adapter.

Referring now more particularly to the drawings, 1 designates the body of the gun, 2 the powder-chamber thereof, and 3 the mushroom.

4 designates the forward adapter, which is positioned in the chamber 2 and abuts against the shoulder formed at the forward end thereof, said adapter or support being provided with a centrally-disposed internally-threaded opening to receive the subcaliber-tube 4', which is provided with external threads near its forward end. The tube is thus centered at its forward end by the adapter, in which it may be adjusted longitudinally. In the instance shown the breech-opening of the gun being smaller than the chamber it is necessary that the rear adapter be smaller than the chamber and be provided with means for locking it in the chamber after it has been inserted therein. To accomplish this, I provide a shoe 5, independent of the adapter, having its up-

per and lower faces formed on the arc of a circle and provided with a handle 6, by means of which it may be inserted in the chamber. This shoe is formed at its upper rear edge with a flange 7 to prevent rearward movement of the adapter 8, which seats thereon and is held from lateral movement by flanges 9, engaging at each end of the shoe. Said adapter is formed with a screw-threaded bearing 10 for the tube, which is also threaded near its rear end, said bearing being split vertically and provided with a clamping-screw 11, by means of which the split portions may be drawn together to lock the gun from longitudinal movement in the adapters. At its upper end said adapter is provided with a vertical recess 12 to receive a clamping member or block 13, formed with guide-lugs 14, sliding in suitable grooves formed in the walls of recess 12. The upper face of the block is formed on a radius equal to that of the chamber 2, while its lower face is formed with an incline or cam-surface 15. Adapted to slide in said recess beneath the block and to coact with its inclined face is a wedge member 16, with which an operating-screw 17 is rotatively connected, said screw being adjustable in the adapter by means of screw-threads. Said wedge is provided with guide-flanges 18, which slide in suitable grooves in the walls of recess 12.

In operation the front and rear adapters are screwed upon the subcaliber-tube and the latter inserted in the chamber of the gun. The tube is then lifted and the shoe inserted beneath the rear adapter and the wedge then operated to force the block in engagement with the chamber-wall, thus firmly locking the tube from movement in the gun.

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

1. In a subcaliber attachment, a support for the tube provided with means for locking it in position in the gun-chamber comprising a sliding clamping member having a cam-surface, a wedge adapted to coact with said cam-

surface to effect the movement of the clamping member, and means for adjusting the wedge.

2. In a subcaliber attachment, a support for the tube provided with means for locking it in position in the gun-chamber comprising a sliding clamping member having a cam-surface, a wedge adapted to coact with said cam-surface to effect the movement of the clamping member, and an operating-screw adjustable in the support and having a rotatable connection with the wedge.

3. In a subcaliber attachment, a support for the rear end of the tube comprising a shoe, an adapter to which the tube is attached adapted to rest upon said shoe and formed diametrically opposite to said shoe with a recess, a sliding clamping member movable in said recess and having a cam-surface, a wedge movable in said recess and adapted to coact with said

cam-surface to force said member in contact with the wall of the gun-chamber, and means for operating said wedge.

4. In a subcaliber attachment, a support for the tube having a recess formed therein, a block slidable in said recess having its outer surface formed on the same radius as the radius of the wall of the gun-chamber and having an inner cam-surface, a wedge slidable in said recess and adapted to coact with said cam-surface to force the block in contact with the wall of the chamber, and means for effecting the movement of said wedge.

In testimony whereof I have signed my name to this specification in presence of two witnesses.

WILLIAM H. BEVANS.

Witnesses:

B. C. LYON,
L. E. BRADSTREET.