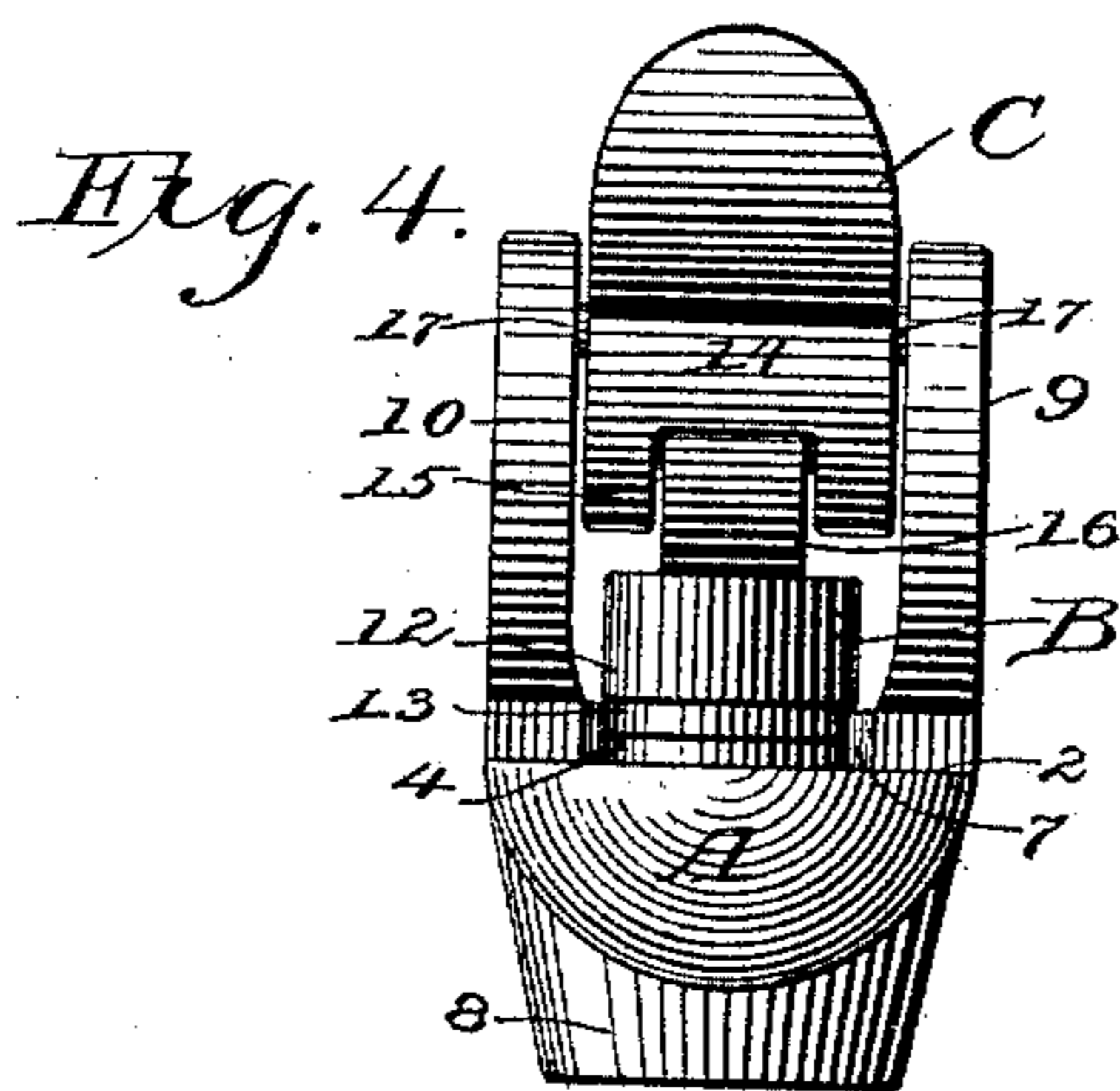
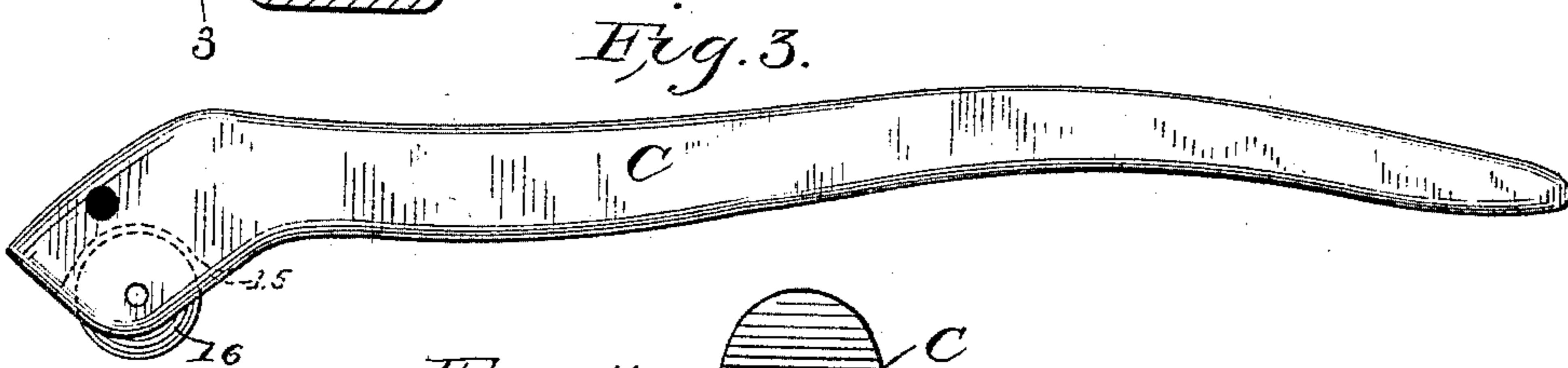
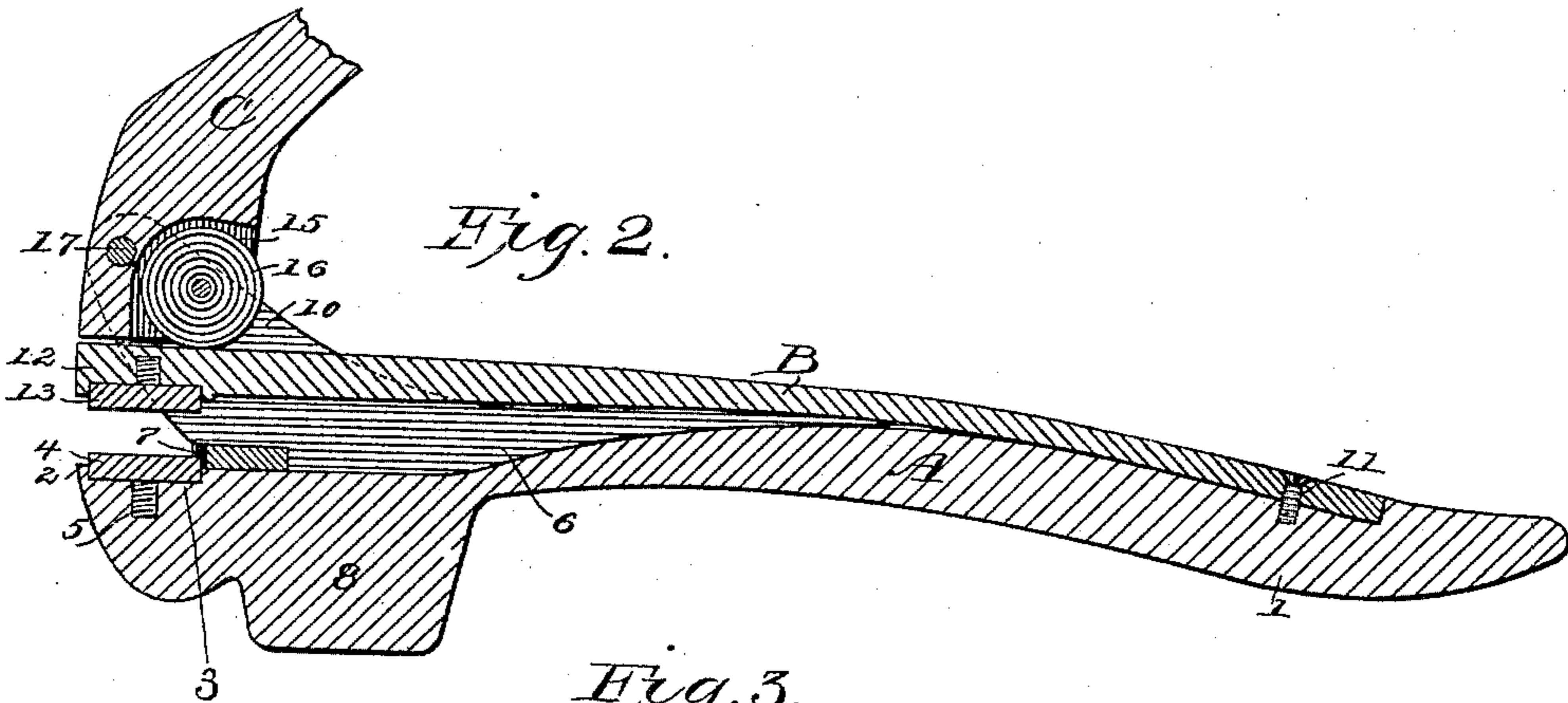
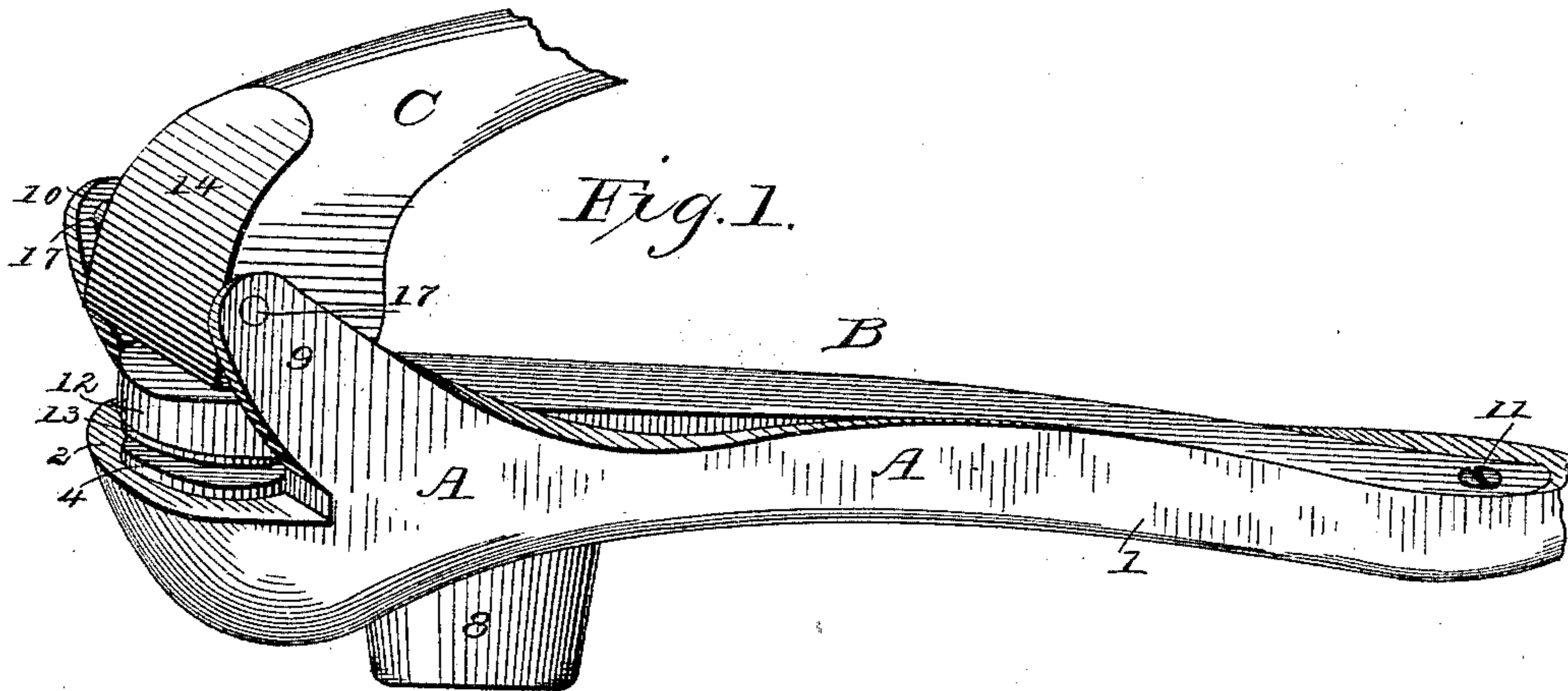


(No Model.)

E. J. BRUCH.  
SEALING PRESS.

No. 440,417.

Patented Nov. 11, 1890.



Witnesses

*Wm. Meusser.*  
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By his Attorney

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# UNITED STATES PATENT OFFICE.

ERWIN J. BRUCH, OF WEST BETHLEHEM, PENNSYLVANIA.

## SEALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 440,417, dated November 11, 1890.

Application filed May 7, 1889. Serial No. 309,865. (No model.)

*To all whom it may concern:*

Be it known that I, ERWIN J. BRUCH, a citizen of the United States of America, residing at West Bethlehem, in the county of Lehigh and State of Pennsylvania, have invented certain new and useful Improvements in Sealing-Presses, of which the following is a specification.

My invention has relation to that class of sealing-presses used in sealing metallic seals to freight-cars, baggage, &c., to prevent the contents from being tampered with.

The main features of my improved sealing-press consist in two lever-handles pivotally united with a spring-arm between them carrying on its free end a seal-die, which is arranged to be impressed on a stationary die seated rigidly in the rigid jaw of the lower lever.

I have fully illustrated my invention in the accompanying drawings, wherein—

Figure 1 is a perspective of my improved sealing-press. Fig. 2 is a longitudinal sectional view, the position of the levers being shown as opened or raised ready to grasp the seal. Fig. 3 is a view of the clamping-lever detached. Fig. 4 is an end view.

A denotes what for the purpose of specific designation may be called the "lower jaw" and "handle." This consists of a properly-formed handle 1, formed at its sealing end with a rigid jaw 2, having a die-seat 3, in which is secured the stationary die 4. This die may be fixed in its position on the rigid jaw by means of a threaded stem 5, let into a threaded hole in the jaw, substantially as shown in the drawings. This means for attaching the die makes it secure in its seat, and at the same time it may be detached and replaced by a new one. In the inner face of the handle is formed a spring-seat 6 to receive the spring, hereinafter described, and at the end of the spring-seat is formed a bridge 7, which limits the downward movement of the spring with its die and strengthens the side extensions at their base. This bridge also constitutes a stop-piece to prevent the seal-disk from slipping back under the spring off the die, and for that purpose it is made higher than the die, but of a height less than the depth of the spring-seat, so that when the seal is placed

between the dies the wires upon which it is strung may, if desired, overlie the bridge and be not interfered with thereby, while the bridge will still act as a stop to limit the downward movement of the spring and the inward movement of the seal. On the under part of the rigid jaw is formed a projection 8, constituting a hammer for such purposes as may be desired in applying or removing the seal. The seal end of the rigid jaw is formed with two upward projecting side extensions 9 10, serving as guides to the vertical movement of the spring and as supports for the pivoted or clamping jaw.

B designates a spring having its end secured in the spring-seat of the handle, as at 11, and extended reaches between the side extensions 9 10, gradually increasing in thickness toward the free or seal end, where it is formed with a seal-seat 12, to which is secured a seal-die 13 by any proper means. The free end of this spring is allowed sufficient vertical play between the die on the rigid jaw and the roller when the jaws are open to open or lift from the lower die to admit the seal-disk to be compressed. The dies are marked with such figures, letters, or other characters usual or desired.

C designates the upper handle and clamping-lever. The handle is of any suitable form to be conveniently handled and terminates in a jaw-piece 14, chambered out in its under face, as at 15, and has journaled in the chamber a roller 16. This clamping-lever is journaled in the side extensions 9 10 by a slot-pin 17, so as to give an eccentric or gradually-increasing pressure of the roller on the end of the spring and over the dies, and so that when the pressure of the grip is removed from the handles the force of the spring will exert itself to open the handles and give space between the dies for the insertion of a seal-disk. The introduction of the wheel in the clamping-lever, with the gradually-increasing pressure on the dies, reduces the wear of the parts to a minimum and provides a construction at once simple, durable, and efficient.

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

As an improved article of manufacture, the

sealing-press comprising the handle A, having the longitudinal spring-recess 6 on its upper side and formed with the side extensions 9 10, the transverse bridge 7 at the base 5 of said extensions, and the countersunk die-seat 3, the bridge being immediately behind the die placed in such seat and of a height greater than the die but less than the depth of the spring-recess 6, the spring B in the recess 6, having one end secured to the handle and the opposite end adapted to play between the side extensions thickened and provided with the countersunk die-seat 12, the lever C,

pivoted between the side extensions 9 10 and having the recess 15, and the roller 16, journaled in said recess and bearing on and forming a cam to operate the spring, all arranged and constructed to operate substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two attesting witnesses.

ERWIN J. BRUCH.

Attest:

CHAS. F. HANKE,  
L. W. SNYDER.