

(No Model.)

F. H. PALMER.  
JAR CLAMP.

No. 567,502.

Patented Sept. 8, 1896.

Fig. 1.

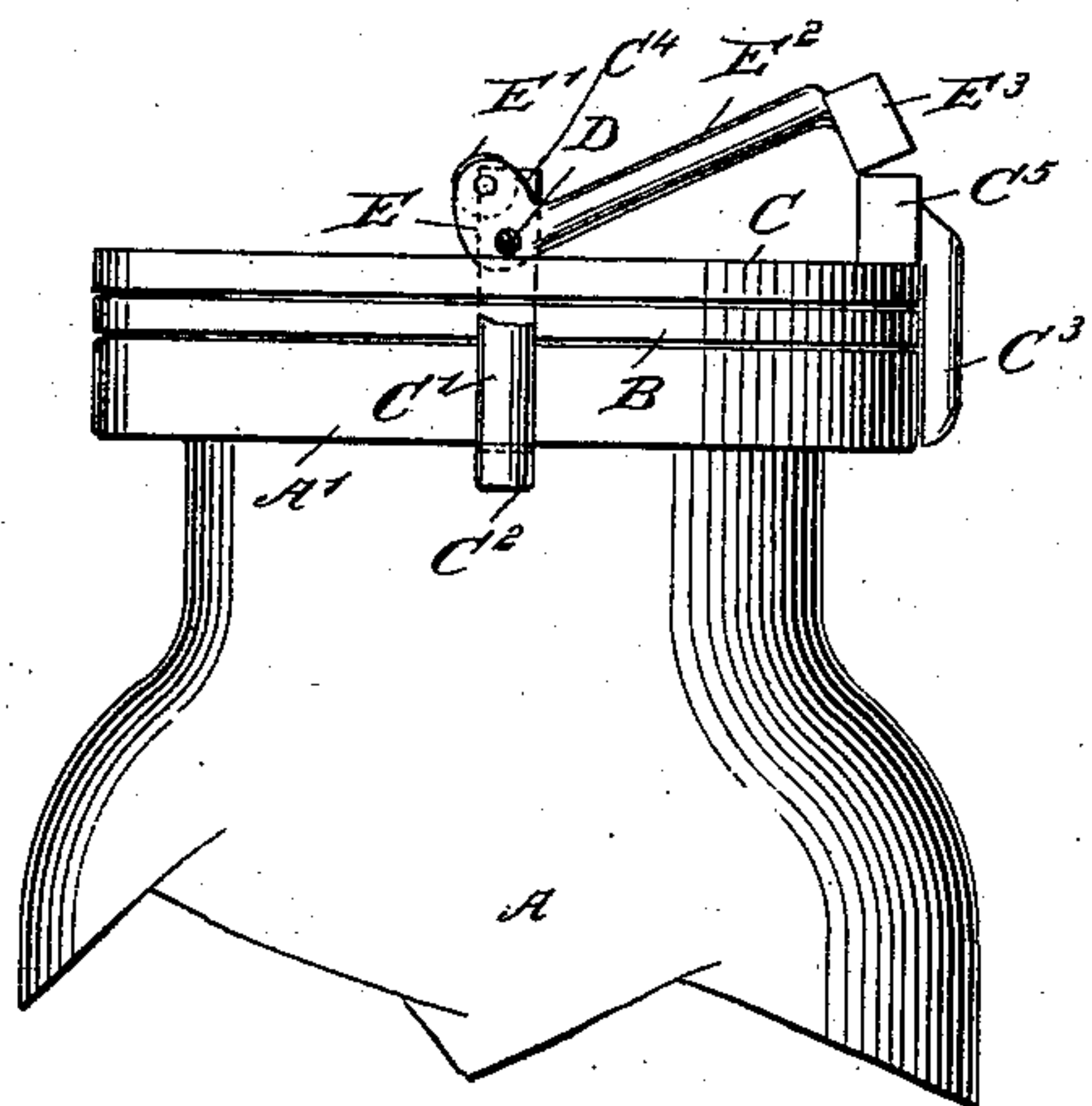


Fig. 3.

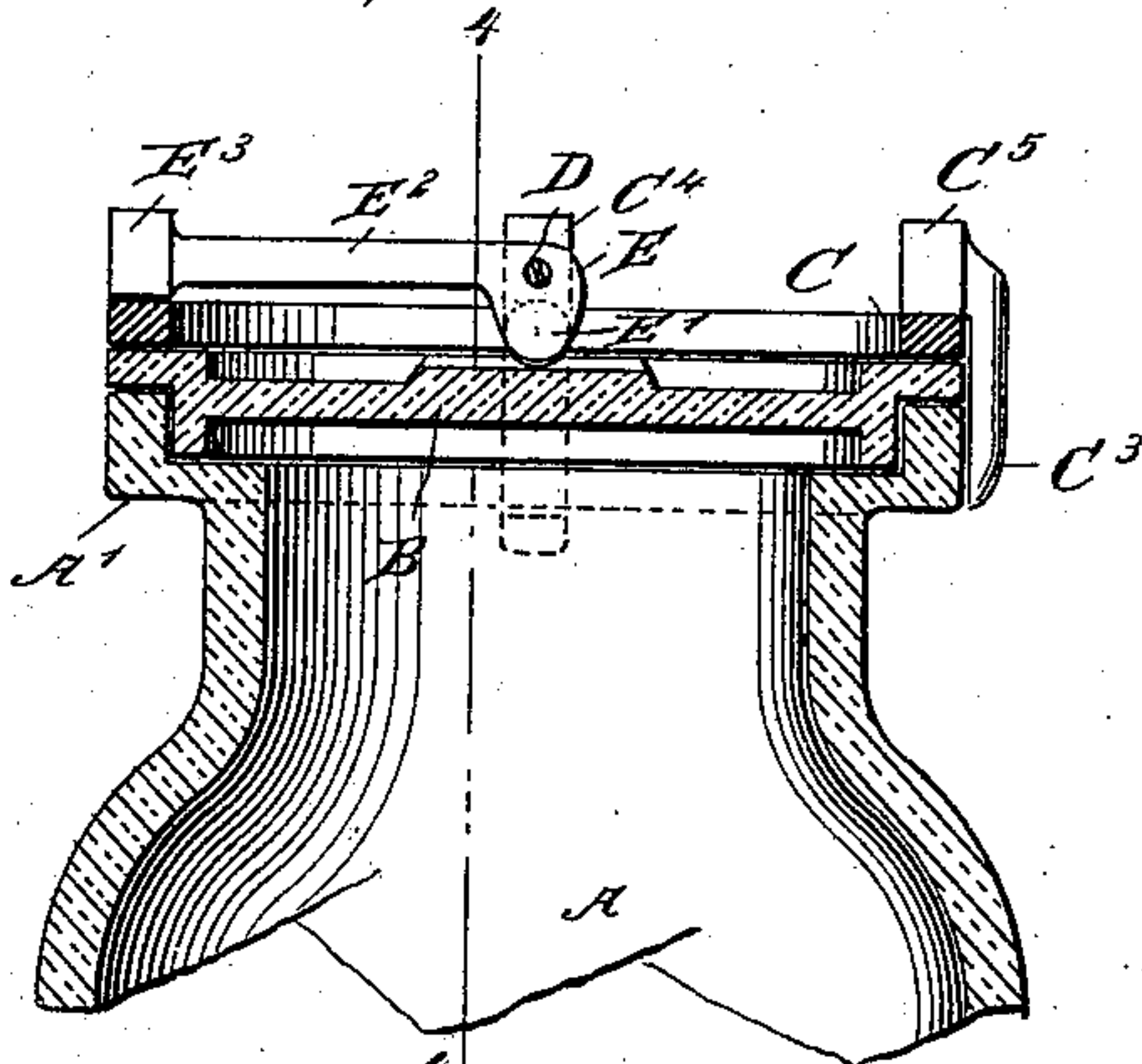


Fig. 2.

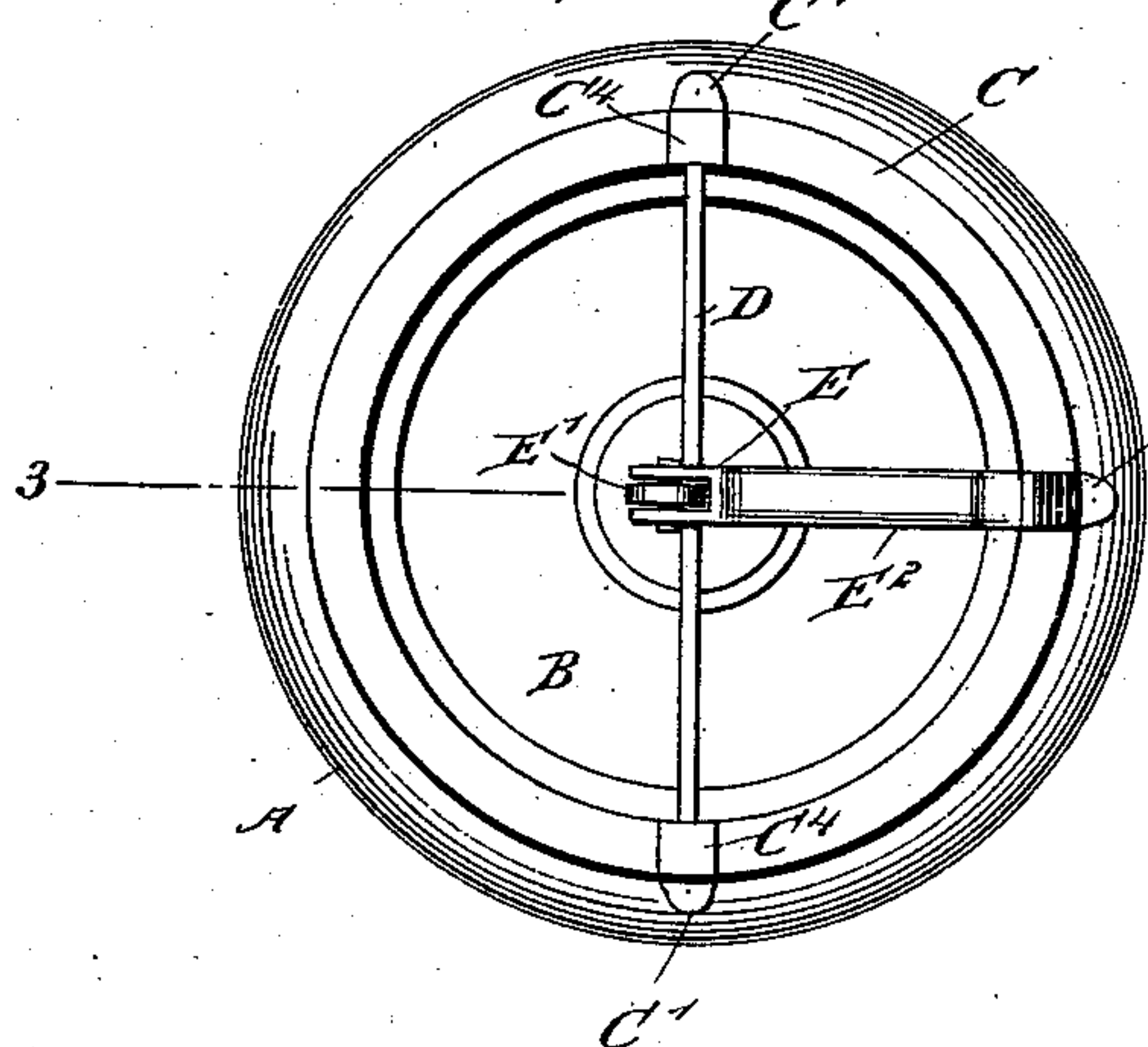


Fig. 4.

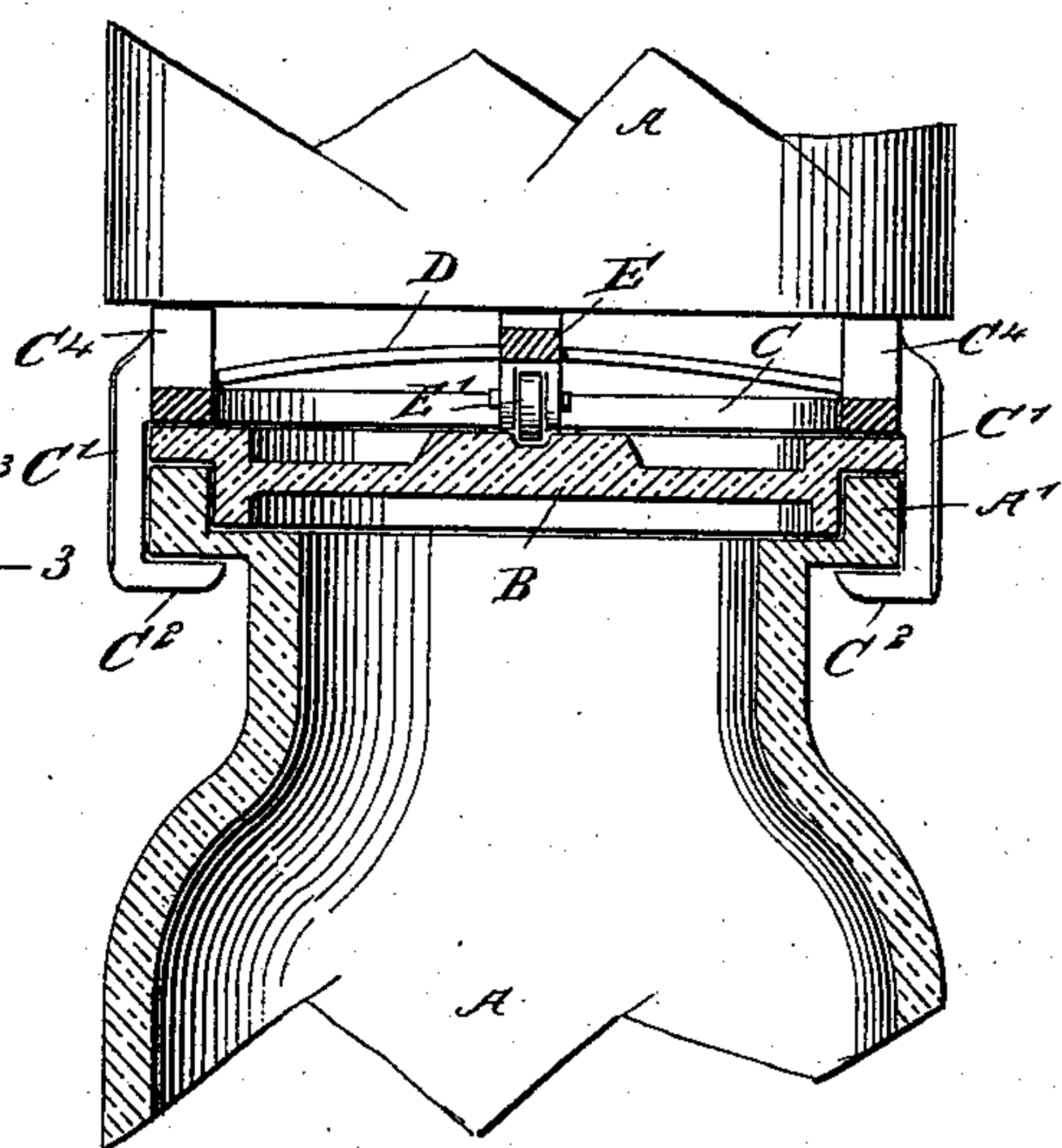
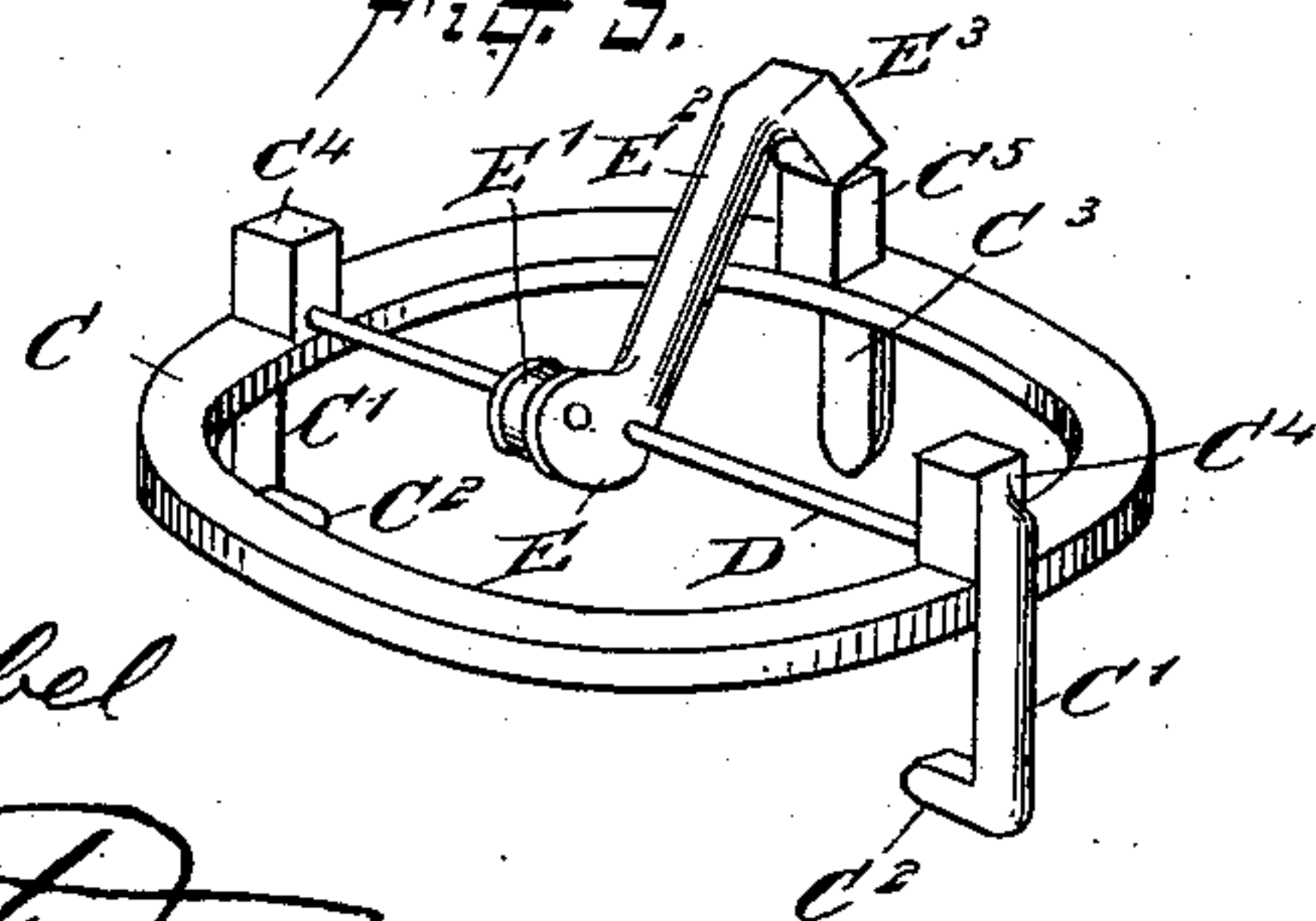


Fig. 5.



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FRANK H. PALMER, OF BROOKLYN, NEW YORK.

## JAR-CLAMP.

SPECIFICATION forming part of Letters Patent No. 567,502, dated September 8, 1896.

Application filed November 26, 1895. Serial No. 570,199. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK H. PALMER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Jar-Clamp, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved jar-clamp which is simple and durable in construction, easily manipulated, and arranged to securely hold the cover to the body of the jar.

The invention consists of a frame adapted to be set on a jar-cover and arranged for engagement with the neck of the jar, a spring-rod held on the said frame and extending across the cover, and a cam-lever on the said rod and adapted to engage the top of the cover to spring the said rod upward to securely fasten the frame to the jar.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement with part broken out. Fig. 2 is a plan view of the same. Fig. 3 is a sectional side elevation of the same on the line 3 3 of Fig. 2. Fig. 4 is a cross-section of the same on the line 4 4 of Fig. 3, and Fig. 5 is a transverse view of the clamping-frame detached.

The jar-body A is provided on its neck with the usual outwardly-extending angular flange A', on which is seated a cover B, on the top of which is adapted to rest a ring-shaped frame C, provided on opposite sides with downwardly-extending arms C', formed on their lower ends with inwardly-projecting lugs C<sup>2</sup>, adapted to engage the bottom of the flange A'.

On the rear of the ring-shaped frame C is formed a downwardly - extending stop C<sup>3</sup>, adapted to abut against the side of the flange A' and the cover B to limit the inward sliding motion of the ring-shaped frame C when the latter is passed upon the cover in a horizontal direction, as illustrated in Fig. 3. By this stop C<sup>3</sup> the frame C is always brought into

the proper position, that is, concentric with the cover B.

On the top of the ring-shaped frame C are formed the lugs C<sup>4</sup>, forming a continuation of the arms C', and in these lugs C<sup>4</sup> is held a transversely - extending spring-rod D, on which is fulcrumed a cam-lever E, provided in its cam end with a friction-roller E' and on its handle E<sup>2</sup> with a lug E<sup>3</sup>, as is plainly shown in the drawings. A lug C<sup>5</sup>, similar to the lug C<sup>4</sup>, is formed on the top of the ring-frame C at the stop-C<sup>3</sup>, the said lugs C<sup>4</sup> and C<sup>5</sup> and the lug E<sup>3</sup> of the cam-lever forming a support for another jar-body A, as indicated in Fig. 4.

When the cam-lever E is in an open position, as shown in Fig. 1, then the friction-roller E' is in an uppermost position and out of engagement with the top surface of the cover B. The lug E<sup>3</sup> of the lever E then rests on the lug C<sup>5</sup>, as indicated in Fig. 5. Now when it is desired to securely lock the cover in place on the body of the jar the operator swings the lever E completely over, so that the lug E<sup>3</sup> rests on the frame C, directly opposite the lug C<sup>5</sup>, and the friction-roller E' is moved into its lowermost position and in firm engagement with the cover B, so as to spring the rod D upward, as illustrated in Fig. 4. By this arrangement a complete connection is made between the clamping-frame C and the cover B, so that the latter, if made of glass, porcelain, or other like material, is not liable to be cracked or broken at the time the cam-lever E is swung into a closed position. It is understood that the rod D, on account of being made of spring metal, yields sufficiently when the cam-lever E is thrown down to prevent breaking of the cover, and at the same time the clamping-frame C is securely attached to the body of the jar A, as the lugs C<sup>2</sup> are drawn upward against the under side of the flange A', to hold the frame in place with the cover B firmly pressed into its seat on the mouth of the jar-body A.

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

1. A jar-clamp, comprising a frame adapted to rest on the cover, and arranged for engagement with the body of the jar, a spring-rod



held on the said frame and extending across the cover, and a cam-lever on the said rod, and adapted to engage the top of the cover, said spring-rod being arranged to bend when  
5 the cam-lever is turned to engage the wheel, to establish a yielding connection between the said clamping-frame and the cover, substantially as set forth.

2. A jar - clamp comprising a clamping-  
10 frame made in ring form adapted to rest on the top of the cover, the said frame being provided with downwardly-extending arms formed with inwardly-projecting lugs adapted to engage the under side of a flange on the  
15 jar-body, the said frame being also provided with a stop-arm adapted to engage the side of the flange and the cover, a spring-rod held in the said frame, and a cam-lever on the said rod, and adapted to engage the top surface  
20 of the cover, substantially as shown and described.

3. A jar-clamp, comprising a clamping-frame made in ring form adapted to rest on the top of the cover, the said frame being provided with downwardly-extending arms 25 formed with inwardly-projecting lugs adapted to engage the under side of a flange on the jar-body, the said frame being also provided with a stop-arm adapted to engage the side of the flange and the cover, a spring-rod held 30 in the said frame, and a cam-lever on the said rod, and adapted to engage the top surface of the cover, the said cam-lever being provided at its outer end with a lug forming with lugs on the ring-shaped frame a support 35 for another jar, substantially as shown and described.

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Witnesses:

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