

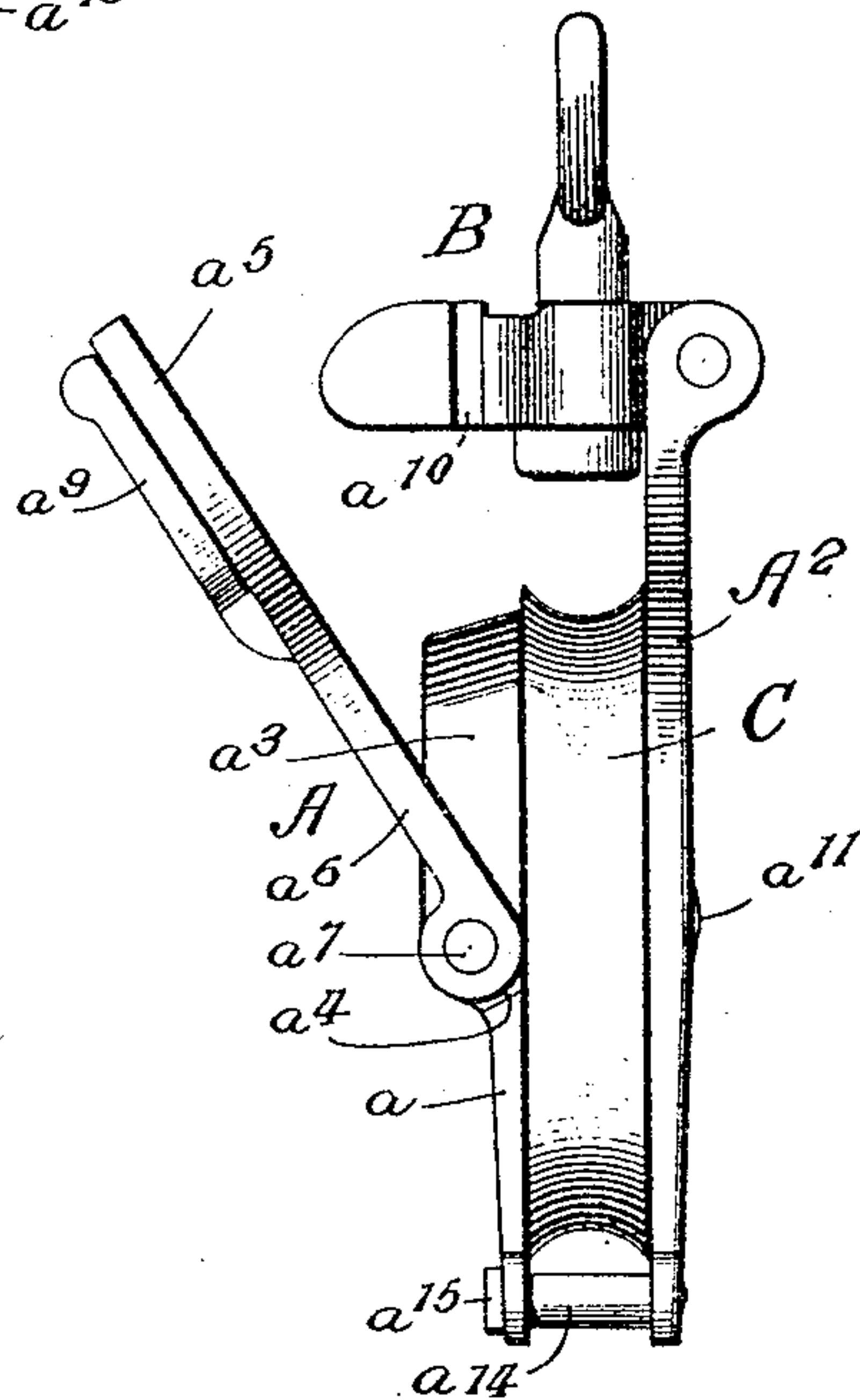
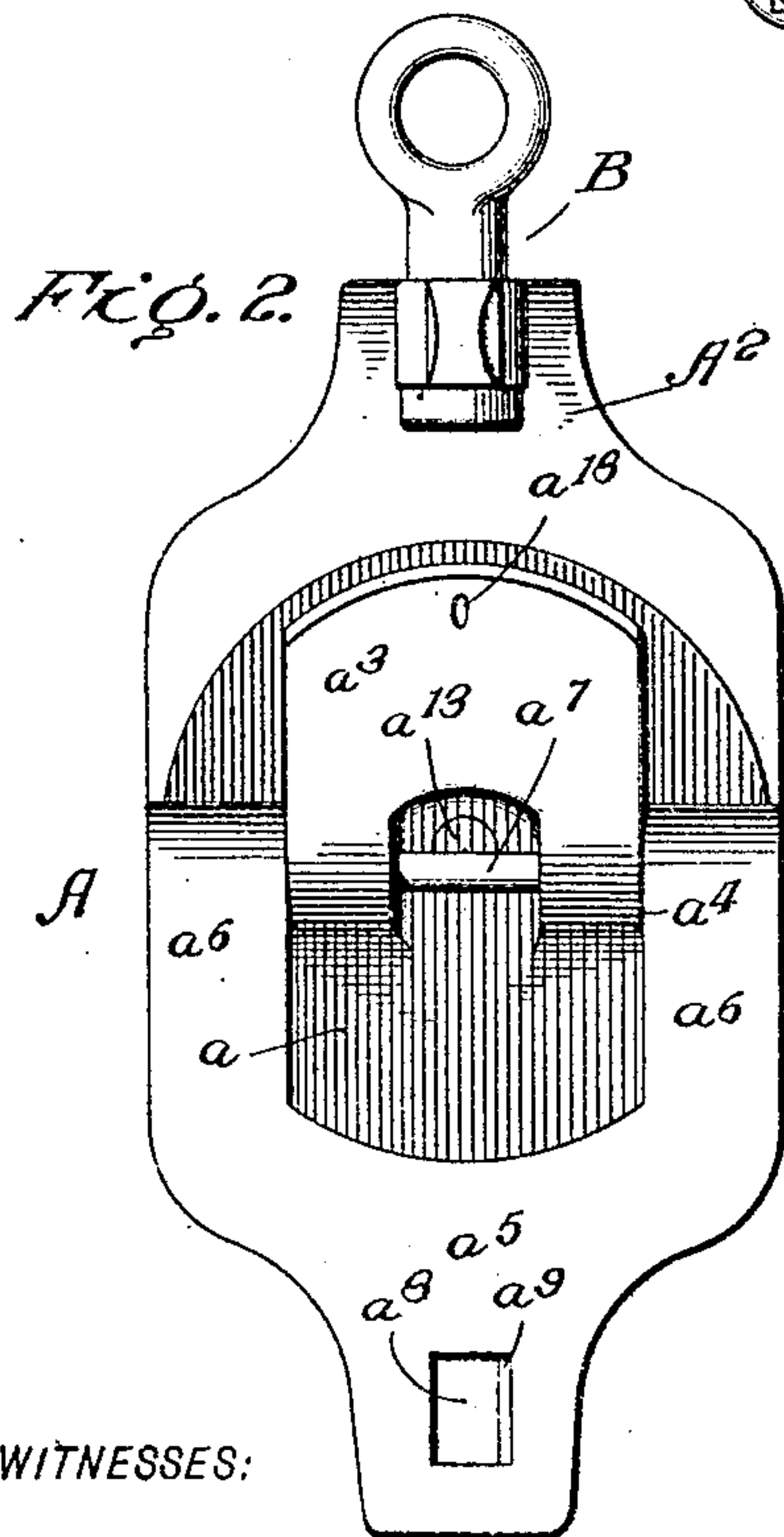
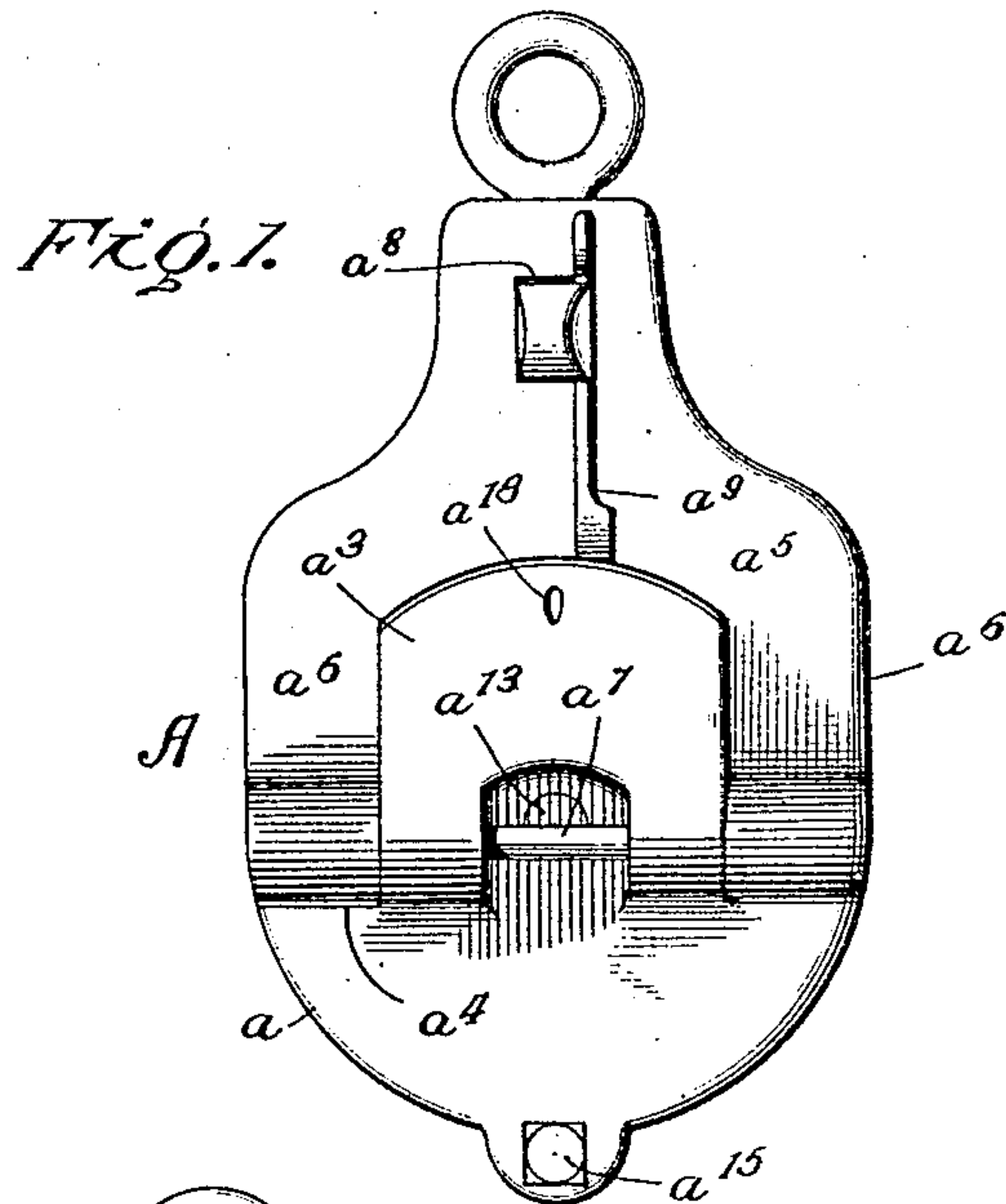
No. 847,955.

PATENTED MAR. 19, 1907.

J. N. LINDSAY.  
SNATCH BLOCK.

APPLICATION FILED JAN. 28, 1907.

2 SHEETS—SHEET 1.



WITNESSES:

Louis H. Schmidt.  
E. T. Waudenburg

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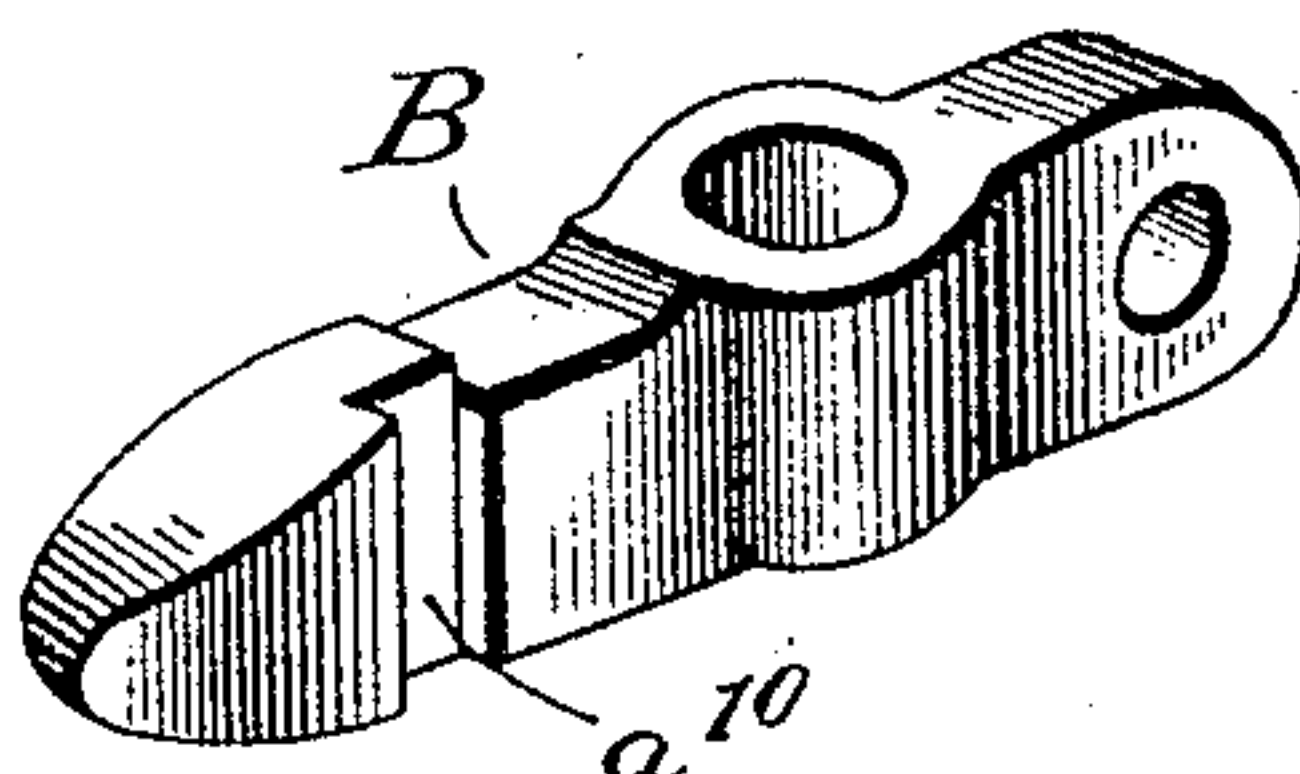
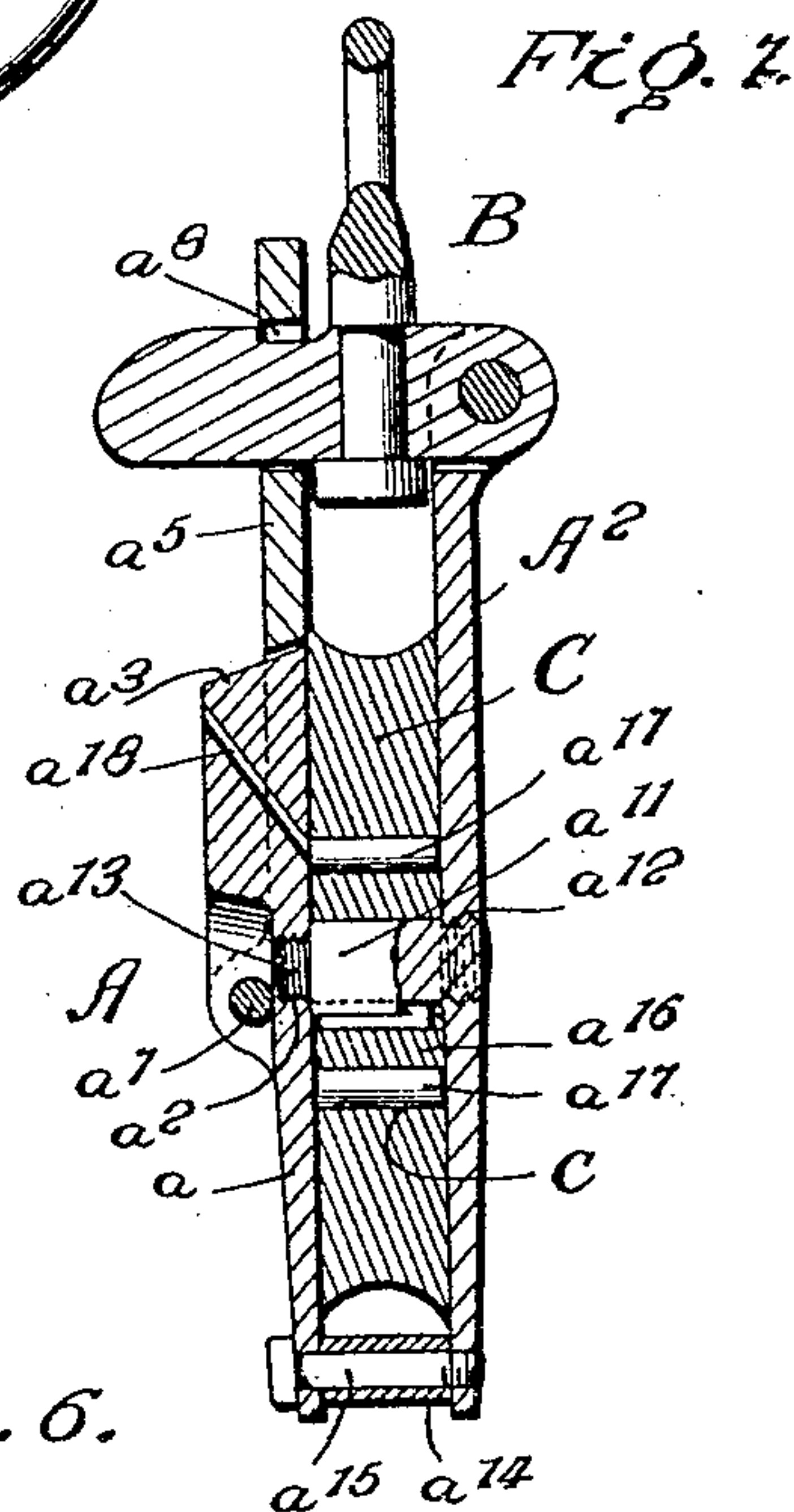
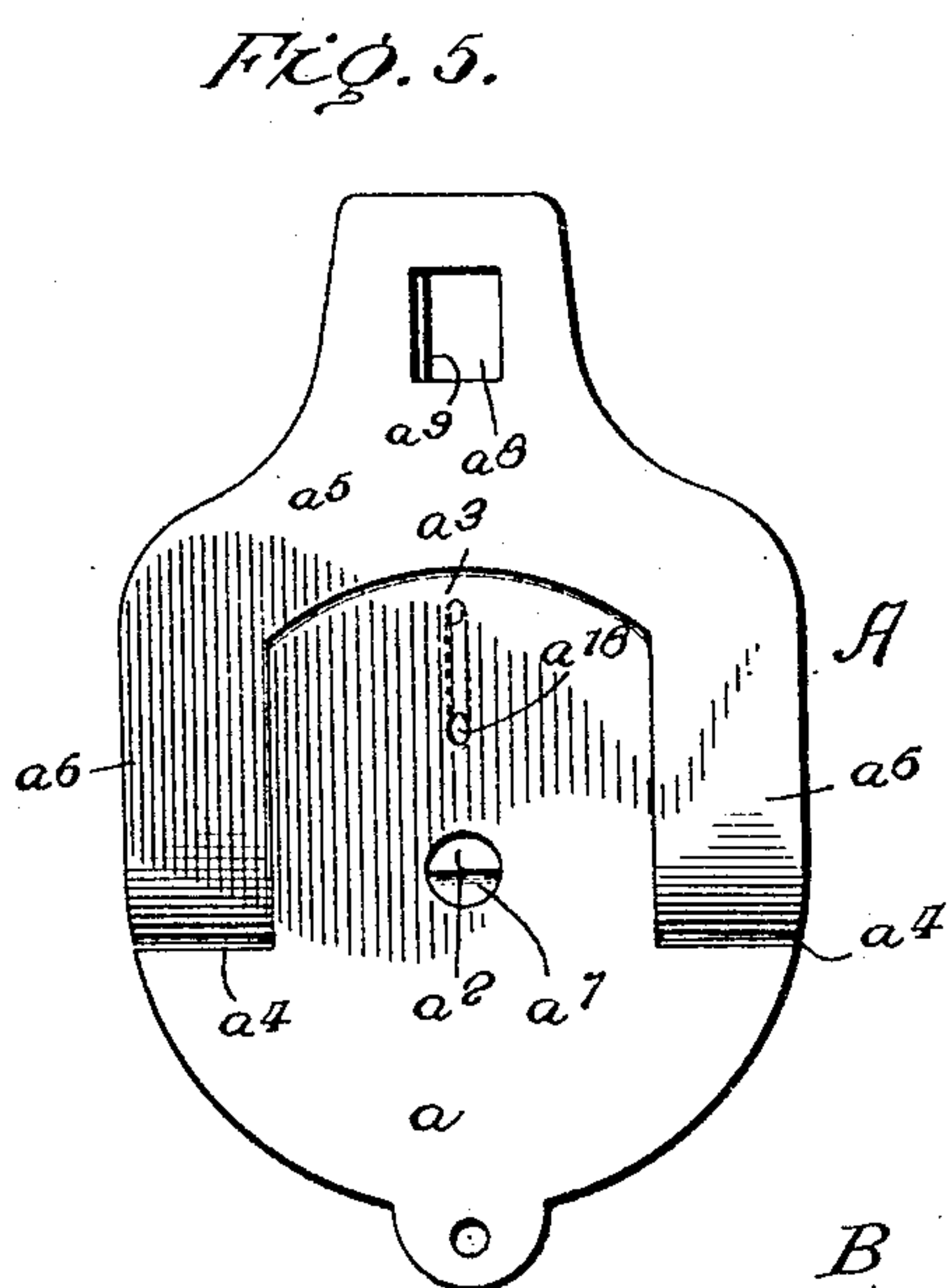
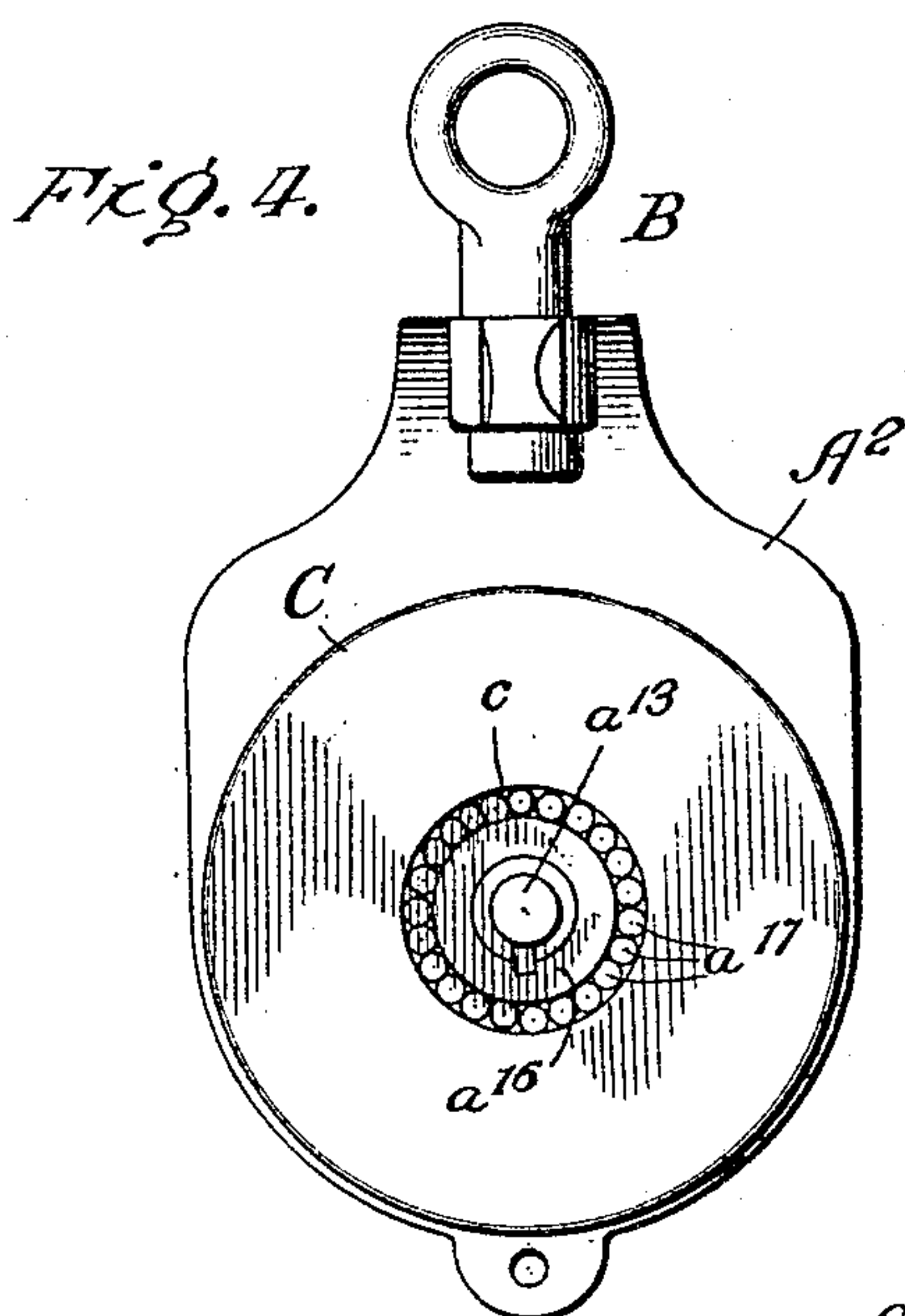
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2 SHEETS—SHEET 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN N. LINDSAY, OF FALL CREEK, OREGON.

## SNATCH-BLOCK.

No. 847,955.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed January 28, 1907. Serial No. 354,528.

*To all whom it may concern:*

Be it known that I, JOHN N. LINDSAY, a citizen of the United States, residing at Fall Creek, in the county of Lane and State of Oregon, have invented certain new and useful Improvements in Snatch-Blocks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object primarily of my invention is to provide a form of lubricating roller-bearing snatch-block or logging-block which shall be simple of construction, efficient in operation, and durable in use.

Among the objects of specific improvement may be mentioned a simple and efficient form of latch or safety-catch which when the block is closed insures that the front face or cheek of the block shall not become unlatched, and thus obviates danger of breaking of the block.

Further objects will appear as the specification proceeds.

In the accompanying drawings, Figure 1 is a front view in elevation of the block. Fig. 2 is a similar view, the front hinged portion of the block being opened. Fig. 3 is a side view in elevation of the block. Fig. 4 is a front elevation, the front face or cheek of the block being removed to display the pulley, the cone, and the roller-bearings. Fig. 5 is a rear elevation of the front face of the block. Fig. 6 is a detail view of the bridge, and Fig. 7 is a central longitudinal transverse section through the device.

Referring to the drawings in detail, A represents the front face or jaw of my device, which is, as shown, in two pieces—a lower member  $a$ , provided with a central opening  $a^2$  therethrough, with a neck  $a^3$ , and with cut-away portions  $a^4$  on each side of the neck, and an upper member  $a^5$ , provided with legs  $a^6$ , straddling the neck  $a^3$  and adapted for hinged movement on a pin  $a^7$ , passing through the lower portion of the legs and through the lower part of the neck  $a^3$ , and also provided with an upper opening  $a^8$ .

$A^2$  represents the rear jaw or face of my device, and B an ordinary form of swinging cross-head or bridge.

Secured firmly at its lower end to the member  $a^5$  is a spring catch or latch  $a^9$ , adapted to engage a side groove  $a^{10}$  in the cross-head. When it is desired to open the

block, the spring-latch is pulled sidewise out of engagement with the groove and the hinged portion of the front jaw then pulled forward on its hinge; and when it is desired to close the jaw the same is simply moved on its hinge until the spring-latch springs automatically into the side groove  $a^{10}$  of the cross-head. Many snatch-blocks are injured and broken by the front hinged shell or jaw coming loose; but this is impossible with my form of safety-latch.

A shaft-pin  $a^{11}$  is screwed into a central opening  $a^{12}$  in the rear jaw or shell  $A^2$ , and the front jaw A is assembled by screwing it on the threaded end  $a^{13}$  of the pin.

The two shells are held at their lower ends against sidewise displacement by a tail-piece or space member  $a^{14}$ , which is a hollow collar, a headed pin  $a^{15}$  passing therethrough and being screwed into the rear jaw, whereby the collar and pin may be removed at pleasure to separate the parts for cleaning, or repairing or the like.

Keyed to the shaft-pin  $a^{11}$  is a collar or bushing  $a^{16}$ , whereby the same is detachable and may be removed when worn and a new one keyed on.

A sheave or pulley C moves on roller-bearings  $a^{17}$ , disposed in the central opening  $c$  of the sheave and around the collar or cone  $a^{16}$ . I prefer roller or "pencil" bearings instead of ball-bearings, inasmuch as they permit greater length of shaft-pin  $a^{11}$  and bushing  $a^{16}$  without increase in the diameter of the sheave, which is impossible with ball-bearings.

Extending at a downward incline through the neck  $a^3$ , desirably at an angle of forty-five degrees, is an oil-cavity  $a^{18}$ , its lower end terminating in line with the roller-bearings, so as to discharge thereinto. By reason of the inclination of this oil-cavity the same may be filled when the block is hanging perpendicular or lying horizontally equally as well in either position or in any intermediate position and also permits feeding out of the oil to the bearings in any position which the block may occupy.

It will be observed from the foregoing description, taken in connection with the drawings, that my device may be taken entirely apart, this being accomplished by simply unscrewing and removing the pin  $a^{15}$ , then unscrewing the front face or shell A and removing the sheave and unkeying the collar or bushing  $a^{16}$ . This removability of all parts of my device is an important factor in the



success of my invention, for it permits of thorough cleaning and repairing whenever needed.

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

1. A snatch-block comprising two jaws or shells, a sheave or pulley disposed therebetween, and a shaft-pin for supporting the sheave and having threaded engagement, at each end, with the two shells.

2. A snatch-block comprising two jaws or shells, a sheave or pulley disposed therebetween, a shaft-pin for supporting the sheave and having threaded engagement, at each end, with the two shells, and a detachable bushing or collar keyed to the shaft-pin.

3. A snatch-block comprising two jaws or shells, a sheave or pulley disposed therebetween, a shaft-pin for supporting the sheave and having threaded engagement, at each end, with the two shells, a hollow spacing-

collar disposed between the lower ends of the shells, and a pin passing through the collar and the two shells and having threaded engagement with one of the shells.

4. A snatch-block comprising two jaws or shells, the upper half of the front jaw being hinged so as to swing downward and forward, a shaft-pin for supporting the sheave and having threaded engagement, at each end, with the two jaws, a swinging cross-head for the jaws, provided with a side groove, and a spring-latch secured at one end to the front jaw and adapted to automatically engage the groove in the cross-head to lock the hinged jaw.

In testimony whereof I affix my signature in the presence of two subscribing witnesses.

JOHN N. LINDSAY.

Witnesses:

JESSE A. FOUNTAIN,  
A. N. BOYD.