

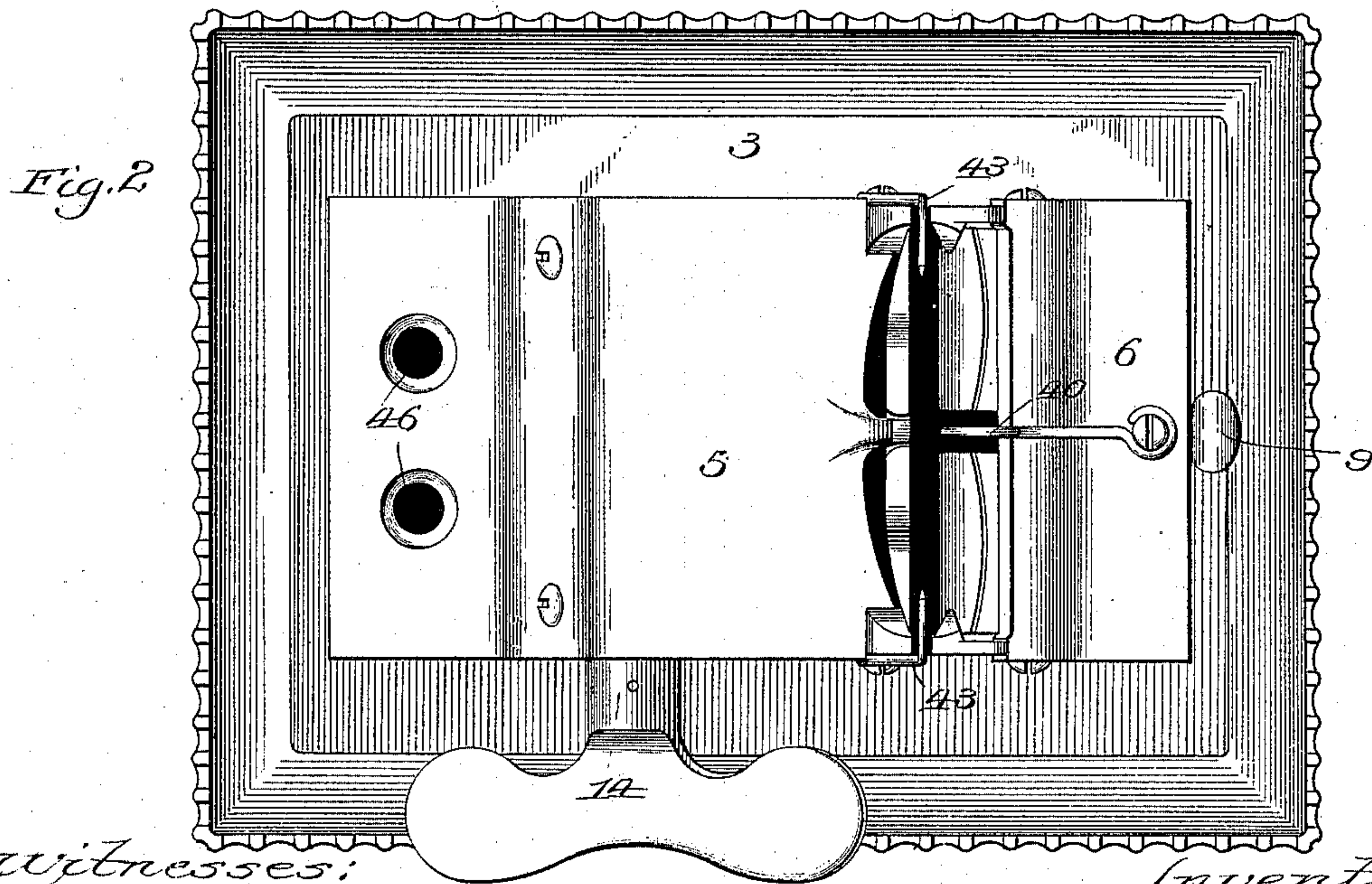
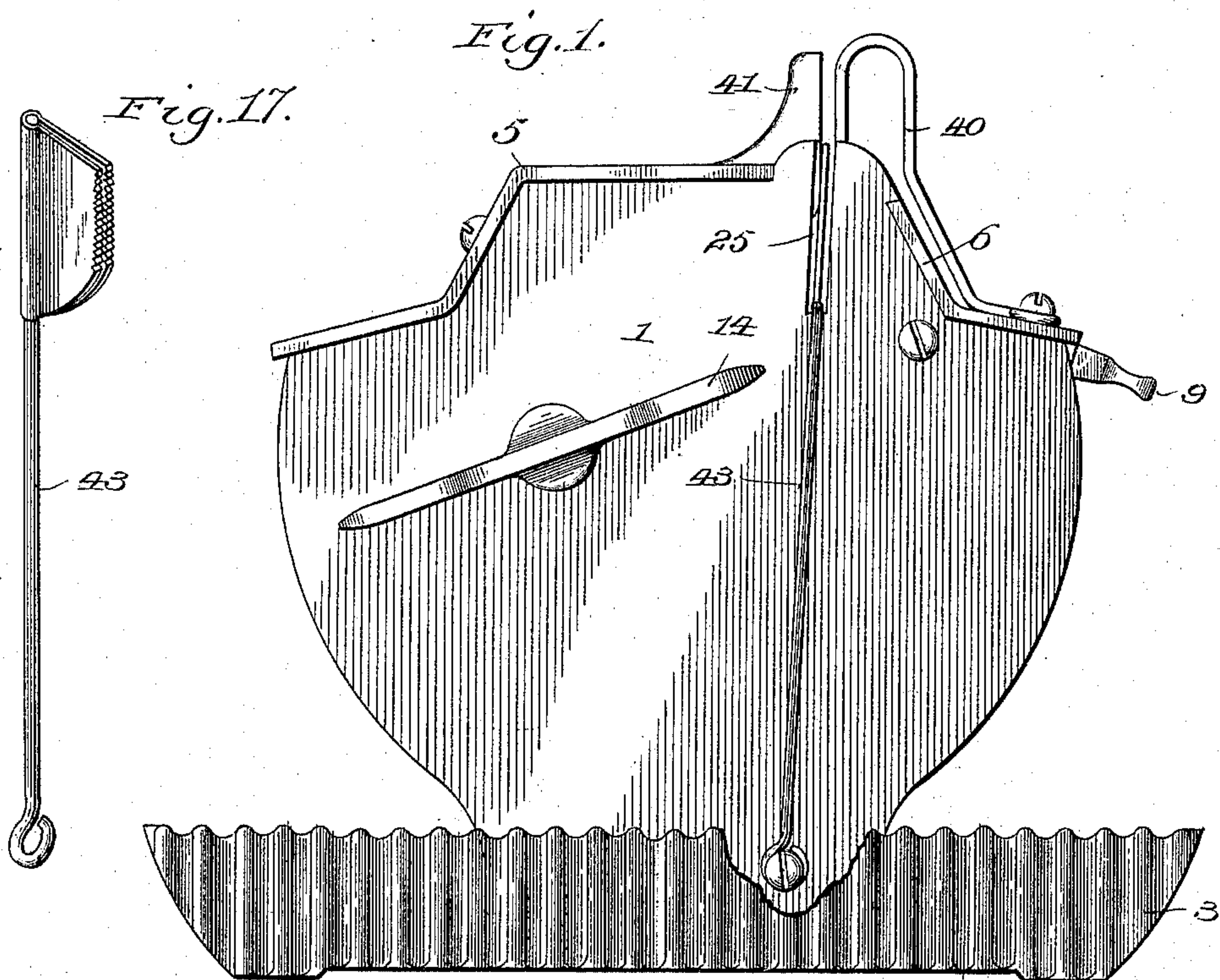
(No Model.)

3 Sheets—Sheet 1.

P. J. CAESAR.  
COMBINED CIGAR CUTTER AND LIGHTER.

No. 567,578.

Patented Sept. 15, 1896.



Witnesses:

Harry B. Polner,  
Geo. E. Clouse.

Inventor,

Peter J. Caesar.

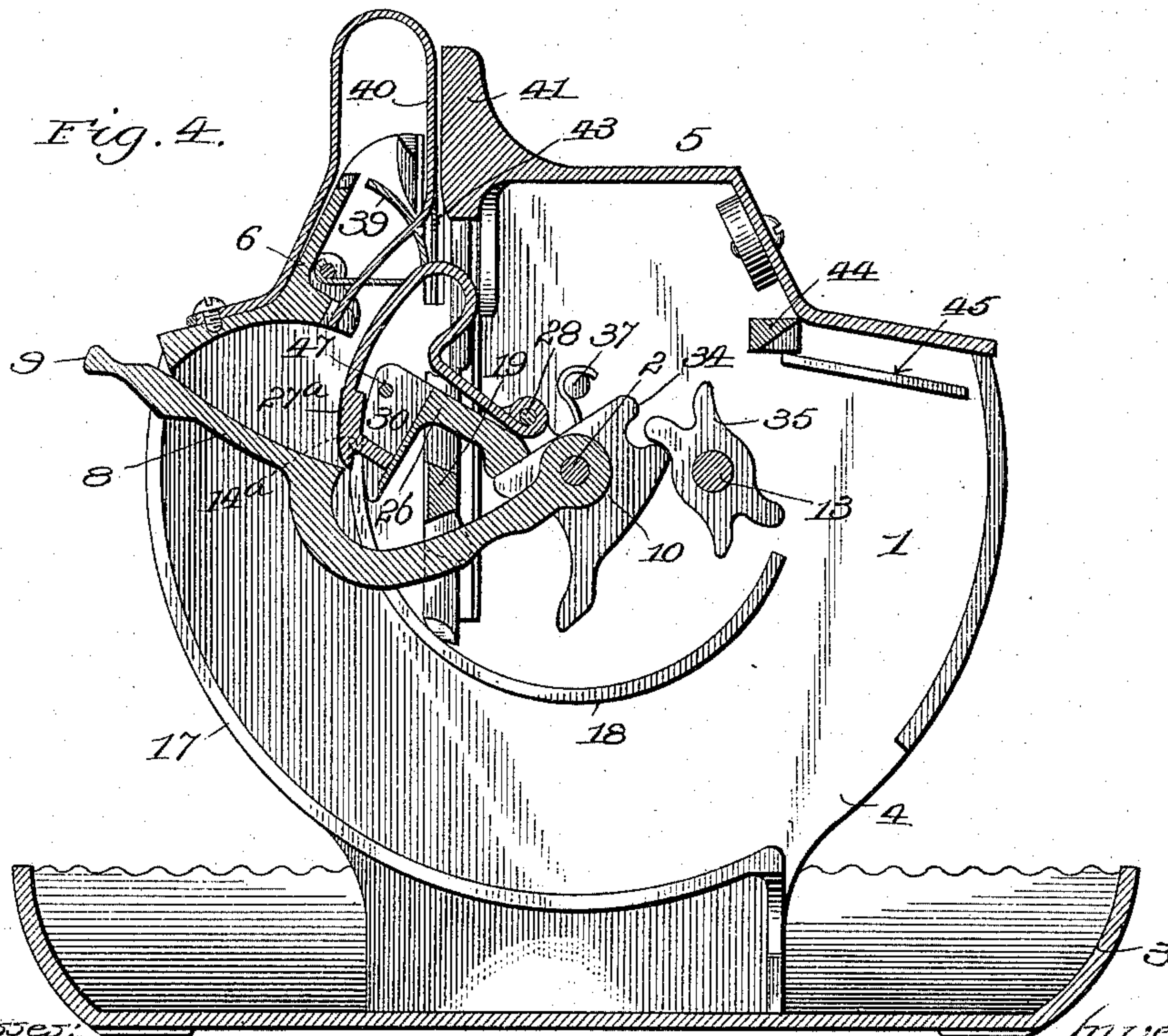
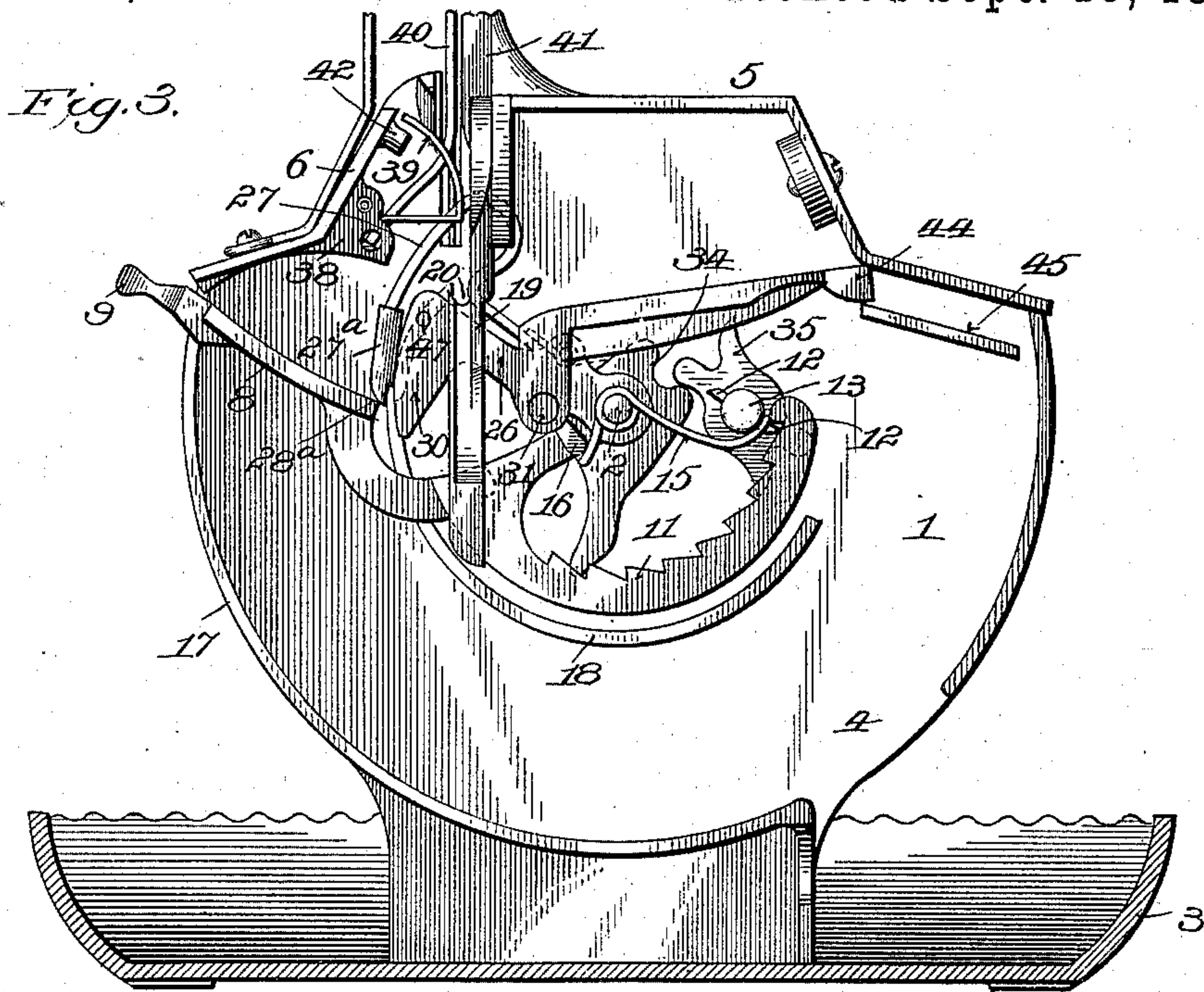
By *Knight Bros*  
Attys.



P. J. CAESAR.  
COMBINED CIGAR CUTTER AND LIGHTER.

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Witnesses:  
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(No Model.)

3 Sheets—Sheet 3.

P. J. CAESAR.  
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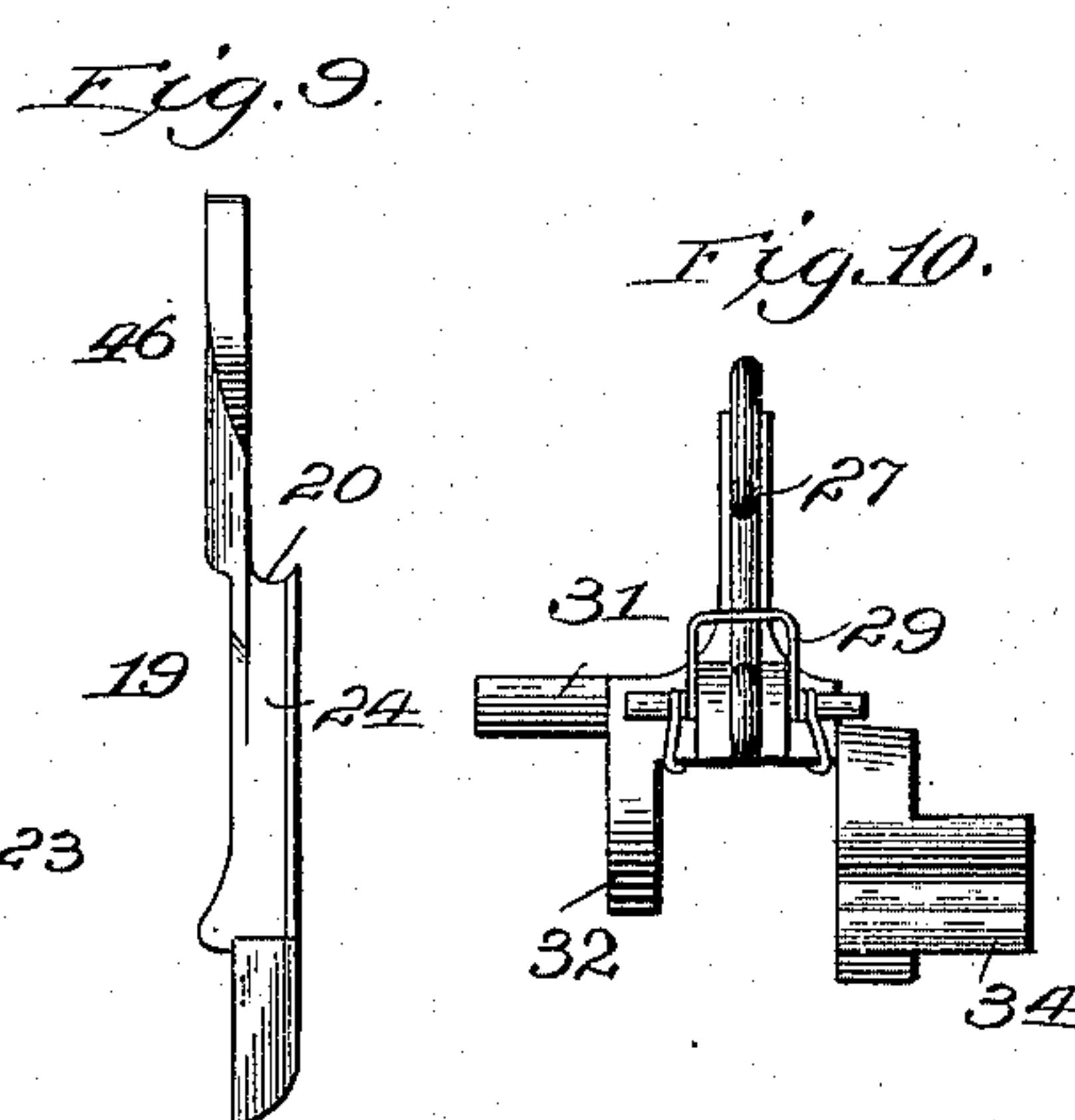
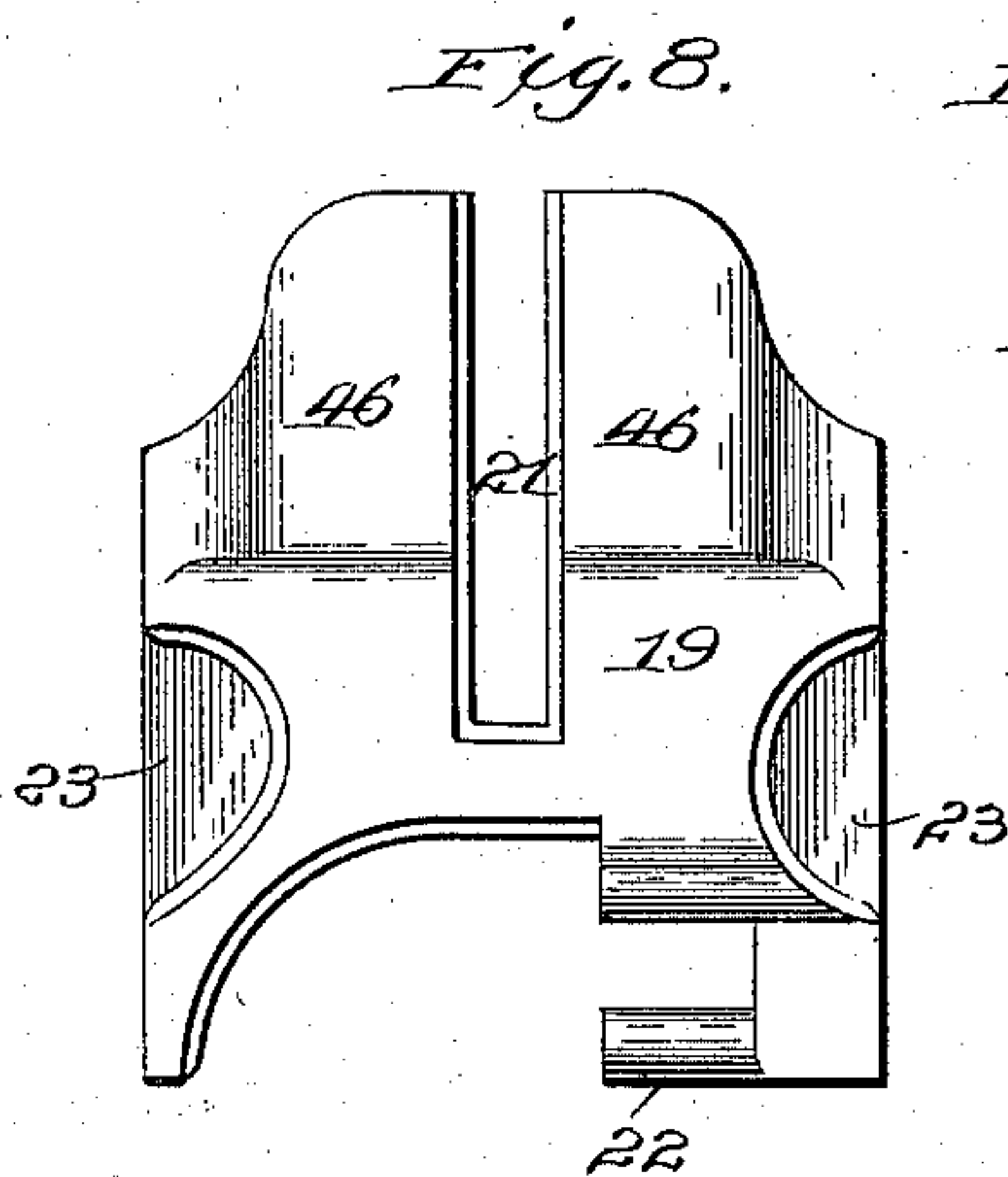
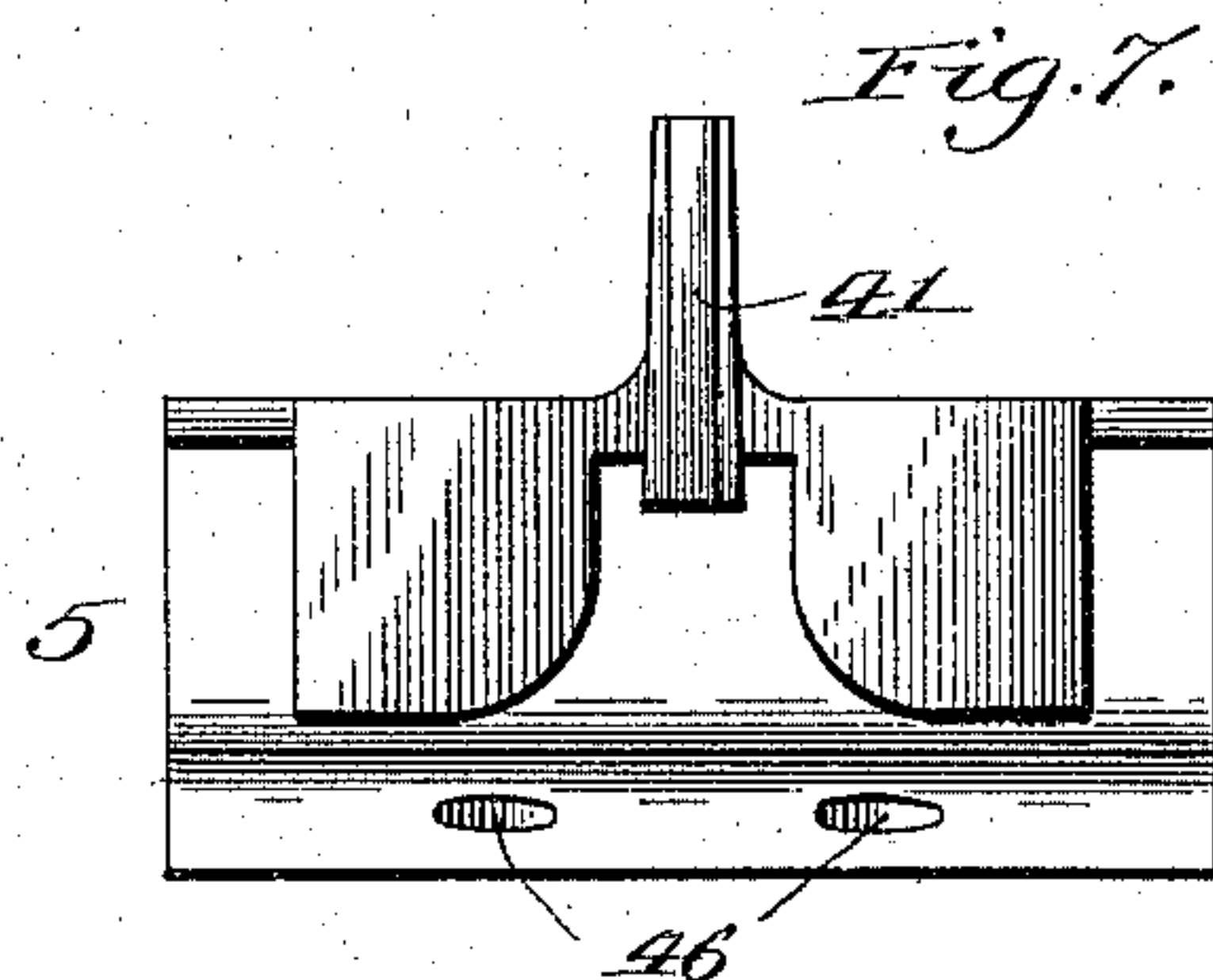
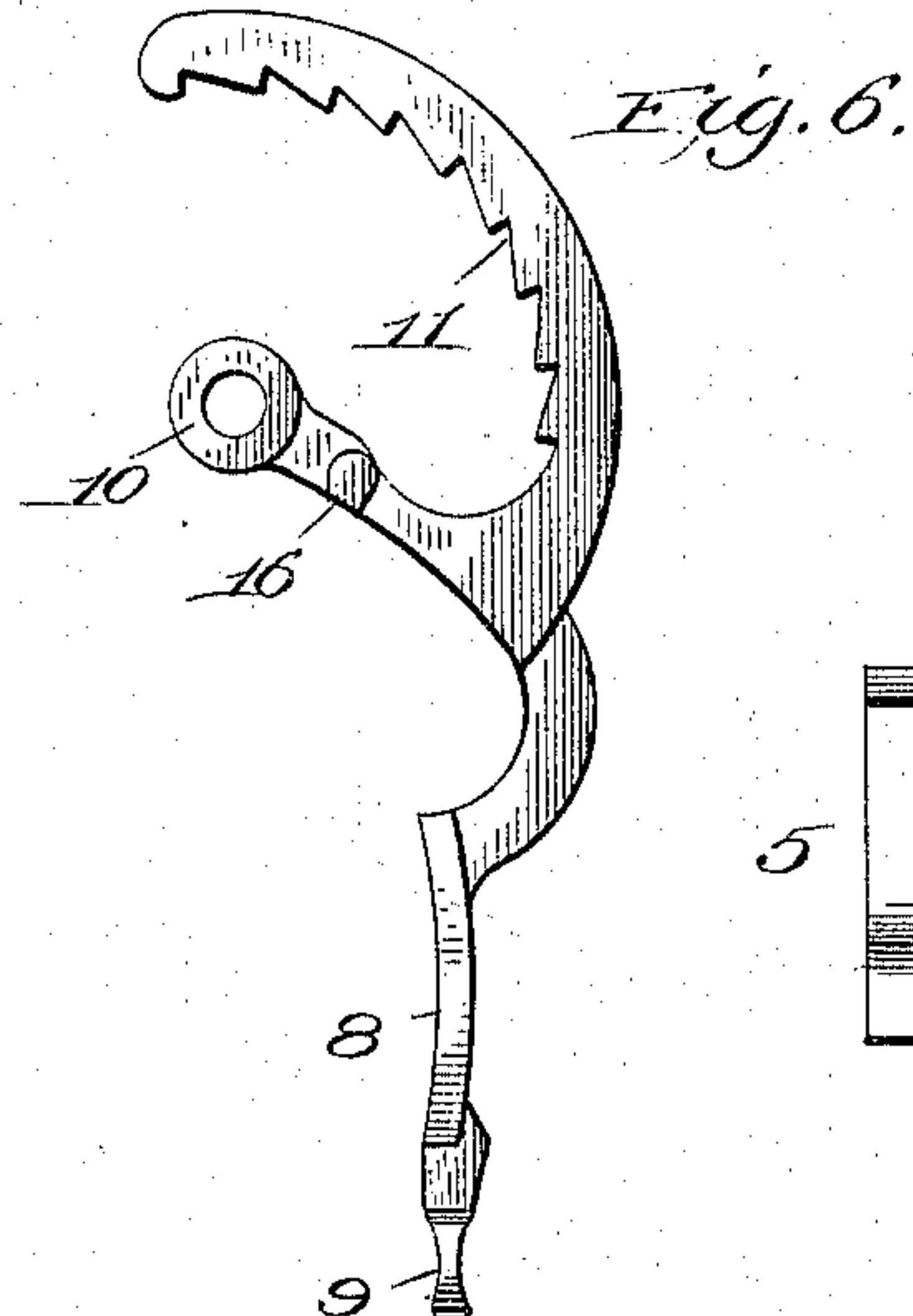
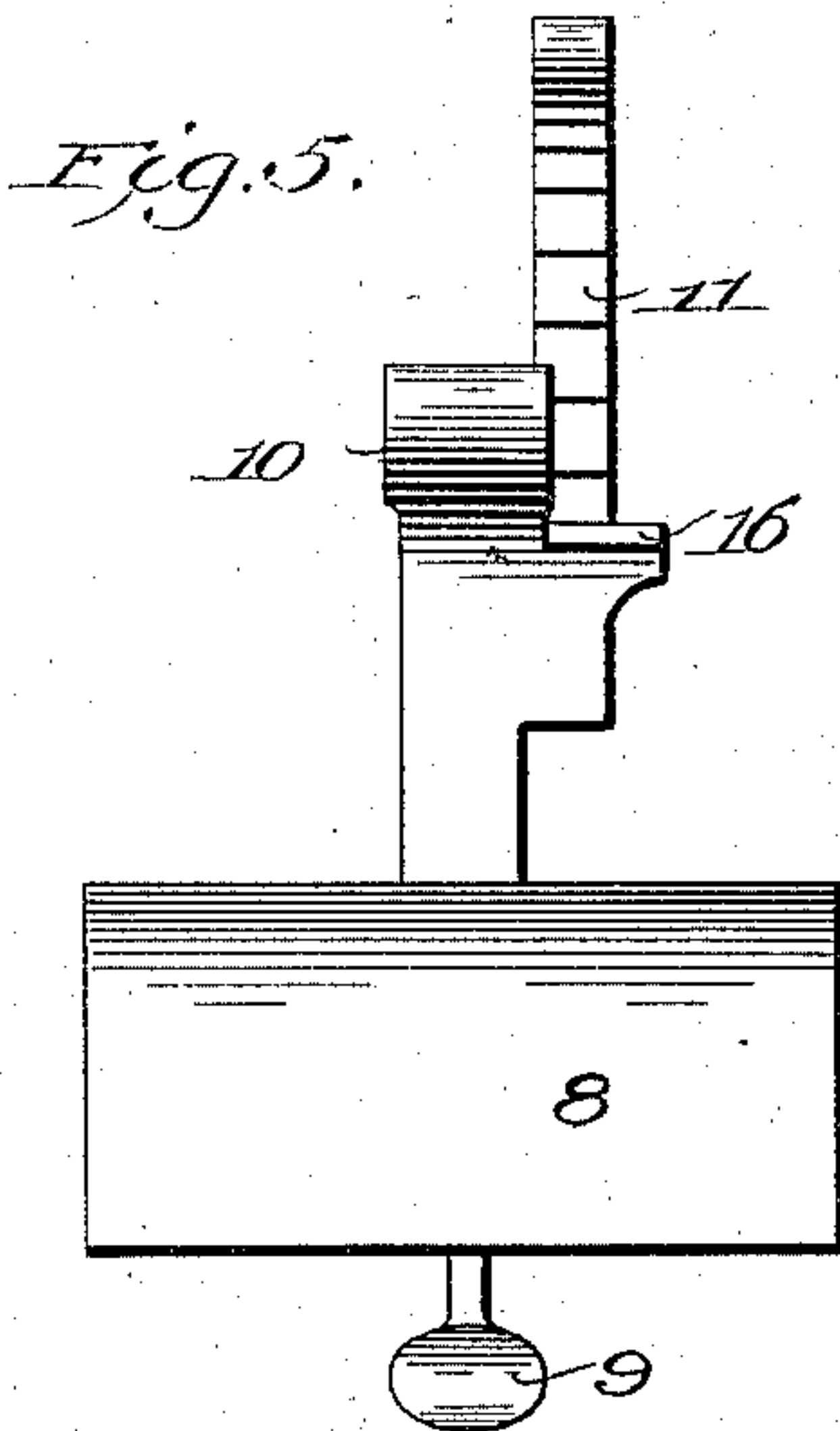


Fig. 10.

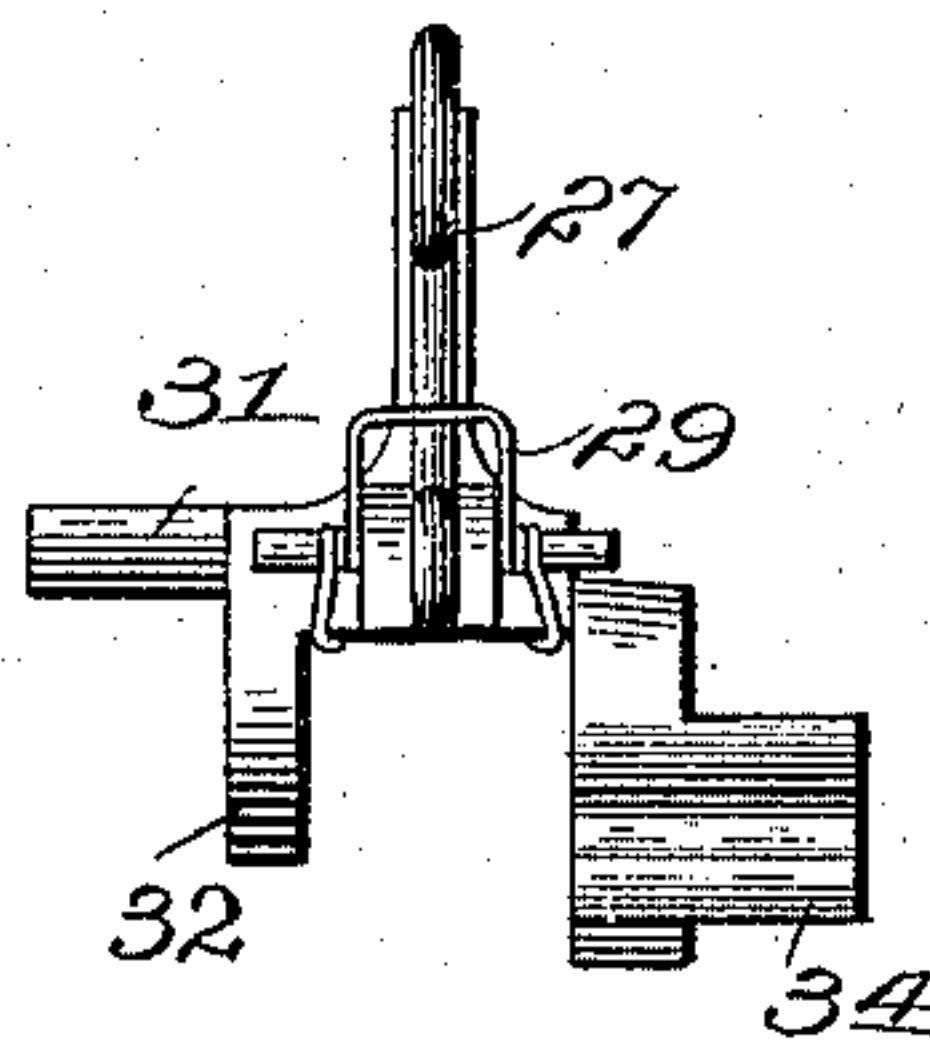


Fig. 11.

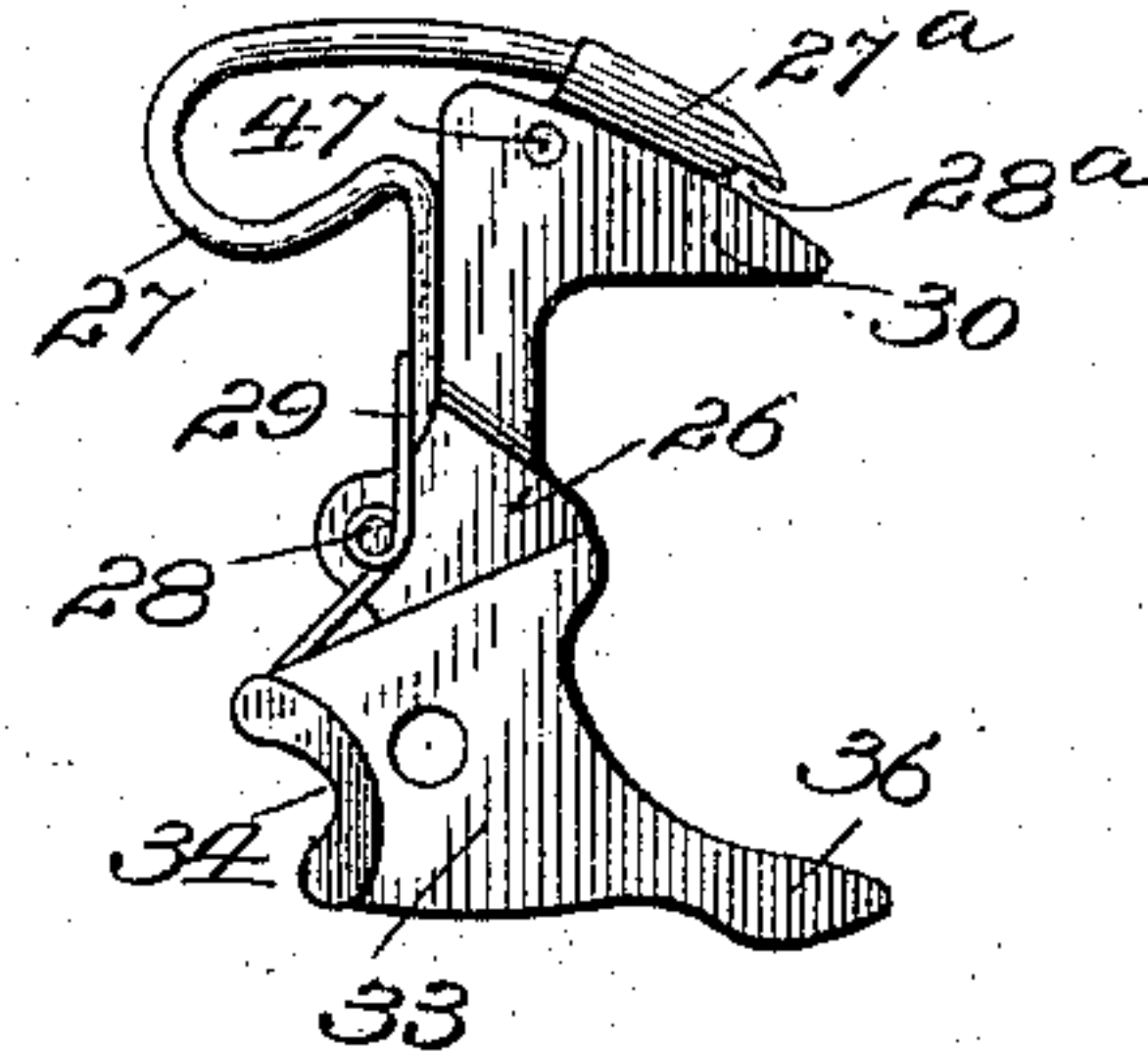


Fig. 13.

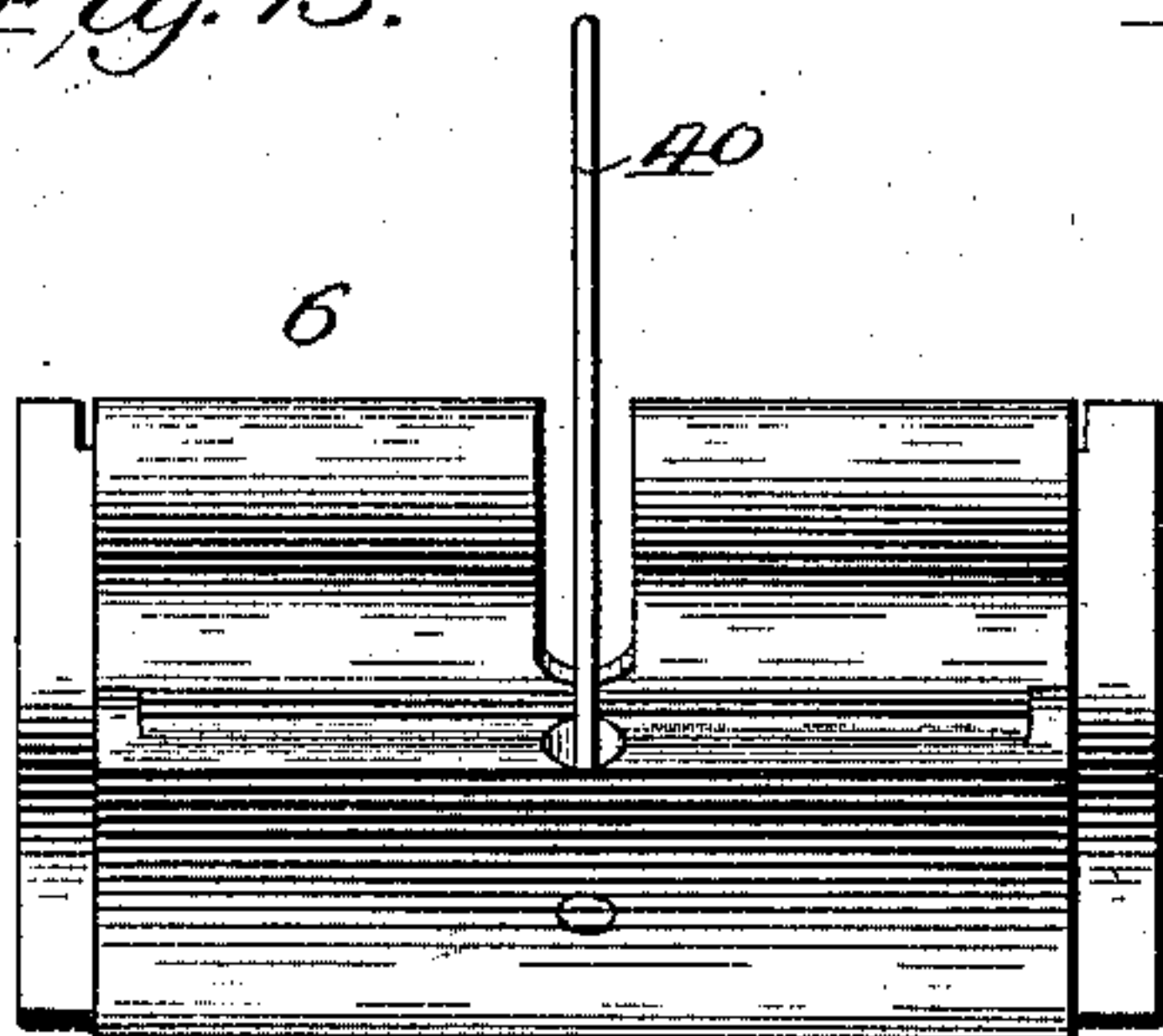


Fig. 14.

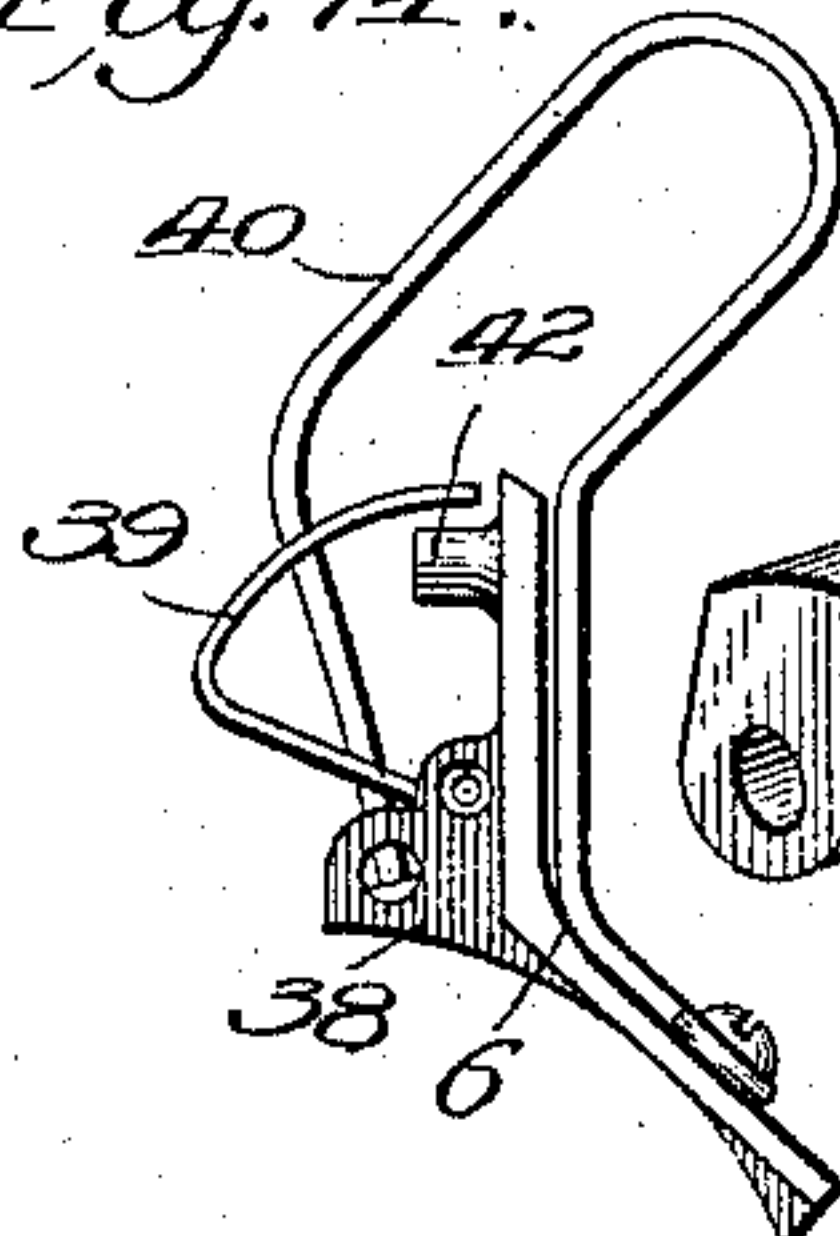
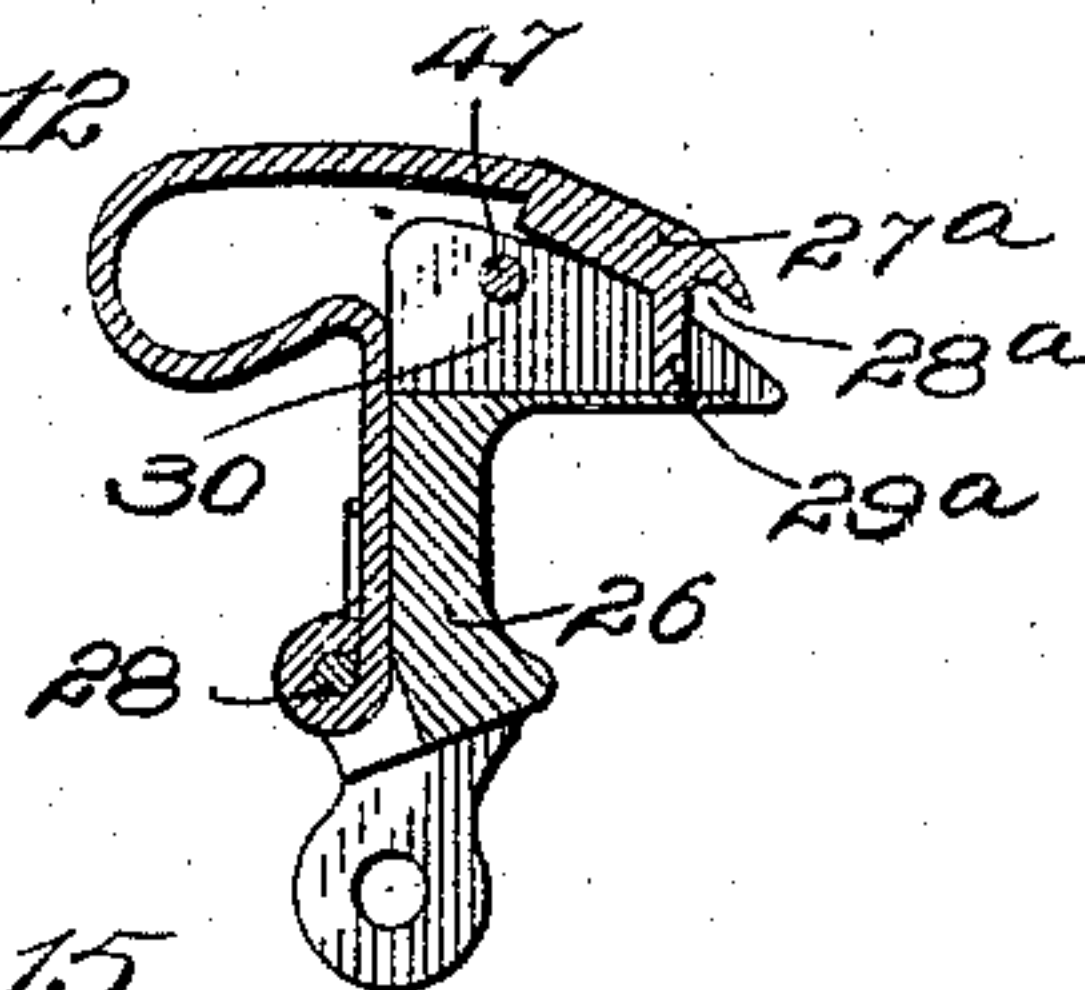


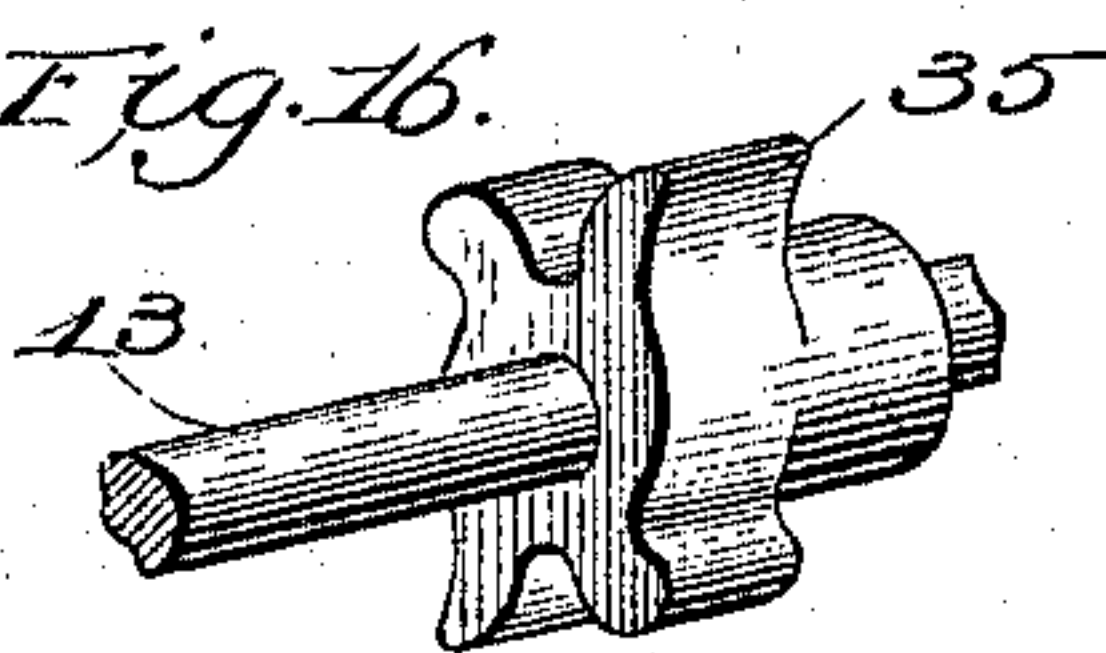
Fig. 15.



witnesses:

Wm. B. Rohrer.  
Geo. E. Bruce.

Fig. 16.



Inventor:  
Peter J. Caesar.

By Knigh Bros  
Attys.



# UNITED STATES PATENT OFFICE.

PETER J. CAESAR, OF DULUTH, MINNESOTA, ASSIGNOR OF ONE-HALF TO  
W. D. KUHN, OF ASHLAND, WISCONSIN.

## COMBINED CIGAR CUTTER AND LIGHTER.

SPECIFICATION forming part of Letters Patent No. 567,578, dated September 15, 1896.

Application filed March 13, 1895. Renewed May 26, 1896. Serial No. 593,189. (No model.)

*To all whom it may concern:*

Be it known that I, PETER J. CAESAR, a citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in a Combined Cigar Cutter and Lighter, of which the following is a specification.

My invention relates to a combined cigar cutter and lighter which as it is put into operation cuts off the end of the cigar, takes up a match, lights it, and holds it suspended by means of a holder.

My invention consists of mechanism for accomplishing the above results; and in order that my invention may be fully understood I will proceed to describe the same with reference to the accompanying drawings, in which—

Figure 1 is a side elevation of the device. Fig. 2 is a top view thereof. Fig. 3 is a side elevation with one side of the casing removed. Fig. 4 is a vertical section. Figs. 5 and 6 represent, respectively, a detail front and side elevation of the movable bottom of the match-receptacle. Fig. 7 is a detail front view of a part of the top of the casing. Figs. 8 and 9 represent, respectively, a front and side elevation of the plunger for raising the match out of the receptacle. Figs. 10, 11, and 12 represent, respectively, a detail front and side elevation and sectional view of the device for picking up the match from the receptacle and placing it on the plunger. Figs. 13 and 14 are respectively detail front and side elevations of another part of the top. Fig. 15 is a detail perspective of the cigar-cutter. Fig. 16 is a detail perspective of the operating-cog, and Fig. 17 is a modification of the device for igniting the matches.

In the said drawings, 1 represents the casing of the device formed substantially as shown and in two sections and secured together by means of a rivet-shaft 2, and 3 represents a tray secured to the bottom of the casing for containing burned matches and the ends of the cut cigars which drop through the opening 4 of the casing into the tray.

5 represents one portion of the top, (see Figs. 1, 2, 3, 4, and 7,) which is secured to the

casing by the means shown, and 6 (see Figs. 1, 2, 3, 4, 5, and 14) represents the other portion, which is also secured to the casing by the means shown.

8 represents the removable bottom of the match-receptacle. It is formed (see Figs. 5 and 6) with the handle 9, which moves in an opening formed by the ends of the two sections of the casing meeting, the bearing-ring 10, by which it is pivoted on the rivet-shaft 2, and with the curved rack portion 11, the teeth of which are engaged by projections 12 on the shaft 13 every time the shaft is turned by the operating-handle 14. The object of so forming the movable bottom is that it can be moved to any point, so that more or less matches can be placed in the device, and as the device is operated to have it slightly oscillated, so as to throw a match into the groove formed at 14<sup>a</sup>, so that the device for picking up the matches from the receptacle when it is being returned to normal position will always be supplied. As will be seen from Fig. 3, the bottom is normally forced upward by means of the spiral spring 15, located on the shaft 2, one end of which bears against the projection 16, formed on the bottom 8, while the other end of the spring is placed under the shaft 13.

17 represents the curved ends of the two sections of the casing and which form the ends of the match-receptacle, and 18 represents curved segments formed integral with the sides of the casing and form a top for the receptacle and also prevent the matches from interfering with the operating parts of the device.

19 represents a plunger which works in guides formed in the sides of the casing and which raises the match out of the receptacle after the match has been placed in the groove 20 formed in it by the picker device to the igniting device. The plunger is formed, as will be seen from Figs. 8 and 9, with the opening 21, in which the match-picker device works, the curved projection 22, which is engaged by an arm on the picker device for elevating the plunger, the indented portions 23, and with the slots 24 at the sides thereof, which latter construction permits of the plun-



ger being raised without interfering with the igniting devices which are placed in the openings 25, formed in the casing. After the plunger has been raised and completed its function it is returned to normal position by gravity.

The match-picker device (see Figs. 3, 4, 10, 11, and 12) consists of a suitable casting 26 and a spring-arm 27, which is pivoted to the casting at 28. The spring-arm is held yieldingly against the casting by means of the spring 29, and it is provided with the head 27<sup>a</sup>, formed with the recess 28<sup>a</sup>, and the projection 29<sup>a</sup>. The casting is preferably formed with the curved slotted head 30, the arm 31, which carries and actuates the cigar-cutter, and the projections 32 33, having openings formed in them through which the shaft 2 passes. The projection 33 has one of its faces formed with the teeth 34, which are engaged and operated by the mutilated gear 35, rigidly secured on the shaft 13, and with the arms 36, which engage the curved arm 22 of the plunger for raising it. The object in so constructing the picker device is that when it is being returned to normal position to take up a match the pivoted spring-arm allows the match to fit in the recess in the head and force the spring-arm backward and outward to a point about the middle of the head or until the projection on the head strikes the pin 47 and yieldingly holds the match in this position, so that when the picker is raised a slight distance during the operation the faces 46 of the plunger prevent the match from receding any farther, and in the continued backward movement of the picker device the curved head 30 moves back from under the match and guides the match into the groove of the plunger, which is simultaneously raised by the picker device, and the match is then carried up to the igniting device and into the holder. The picker device is held normally in the position shown in Figs. 3 and 4 by means of a spiral spring on the shaft 2, one end of which bears against the rear face of the toothed projection 34, while the other end engages at projection 37, formed integral with the side casing 1. This spring also serves to return the picker device to normal position after it has been operated by the gear 35.

The cover 6, which forms the top of the match-receptacle, has pivoted to it, in the projections 38, formed at its ends, a guard 39, formed substantially as shown, which as the plunger rises prevents more than a single match being raised. This guard also serves to guide the match between the spring-arm 40, carried by the cover 6, and the projection 41, formed on the cover 5. A stud or projection 42 limits its upward movement, and when the other parts of the machine resume their normal positions the guard drops by gravity to the position shown in Figs. 3 and 4.

43 represents the igniting device, which in this case is a rod of spring metal secured at its lower end to the casing and having its

upper end bent, as shown in Fig. 2 and provided with a serrated face. An igniting device is applied to each side of the casing, so that no matter which way the match is placed in the receptacle its head will be engaged by either one of the serrated faces. In Fig. 17 I have shown a modification of the igniting device. In this form the serrated face is formed of a separate piece of material and then secured to the spring-rod.

As has been before stated, as the plunger rises with the match in the groove provided for it the match is guided between the spring and projection on the covers 5 and 6 by the guard pivoted to the cover 6 and is brought into engagement with the igniting devices. As the plunger continues to rise the ignited match is forced nearly to the top of the projection on the cover 5, and as the plunger descends to normal position it is held therein until taken in the hand to light the cigar. The end of the cigar is cut off by the knife 44, which is moved forward by the projection 31, by which it is carried as the picker device is operated. As seen in Figs. 3 and 4, the cutter is guided in its movement by the guides 45, formed integral with the side casings 1. The ends of the cigar to be cut are inserted through the openings 46 in the cover 5.

The operation of my device is as follows: The cover 6 is removed and the bottom is forced down by the handle provided for the purpose, the receptacle filled with matches, and the cover replaced. When it is desired to cut and light a cigar, the operating-handle is turned a half-revolution, which moves the cog, which is preferably constructed as shown, into engagement with the teeth on the picker device. This movement raises the picker device from the position shown in Figs. 3 and 4 upwardly, carrying with it a match, which is wedged between the spring-arm and the head. As the picker device rises the arm comes into engagement with the curved projection on the plunger and forces the plunger upward. As the plunger rises the picker device moves out of the opening in the plunger, but during this movement the faces of the plunger come into engagement with the match, and, as the picker continues to move, the match is forced out between the spring-arm and head and guided into the groove formed for it in the plunger. The continued movement of the plunger forces the match against the igniting devices and between the device for holding it after it has been ignited. During the first part of the movement of the picker device and as it moves back the cigar-cutter, which is actuated by the arm 31 of the picker device, is moved forward and cuts off the end of the cigar, which has been inserted in one of the openings provided for the purpose in the cover 5. After the cog on the shaft has moved out of engagement with the teeth of



the picker device, and which is after the match has been ignited and forced into the holder, the coiled spring in engagement with the picker device returns it to normal position, which allows the other parts to return to their normal positions, as above described, that is, the position shown in Figs. 3 and 4. As the picker device returns to normal position it allows a match to wedge itself between the spring-arm and head, which has been moved into the groove in the match-receptacle by the movement of the bottom 8. This is accomplished by the projections on the shaft 13 engaging any one of the teeth on the curved rack as the shaft is turned, which movement causes the bottom to descend. As the projections move out of engagement with the rack the spiral spring on the shaft 2, which has one end bearing against a projection on the bottom, forces it up again. This movement of the bottom shakes the matches in the receptacle and one of them moves into the groove to be raised by the picker device.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. The combination of a suitable match-receptacle a vertically-reciprocating plunger for elevating a match, a device for picking up a match from said receptacle and depositing it over the plunger, and suitable means for operating the picker and plunger in proper relation, substantially as and for the purpose set forth.

2. In a cigar-lighter, the combination of a suitable match-receptacle, a picker for taking a match out of the receptacle, a plunger on which the picker delivers for raising the match, a yielding scratcher in the path of the match for igniting the same, and a holder for suspending the match when the plunger returns, substantially as and for the purpose set forth.

3. The combination of a suitable match-receptacle having a movable bottom, means in connection therewith for moving the same, a device for taking a match from the receptacle, a plunger for receiving the match from the lifting device, suitable means for raising the plunger, and igniting the match; and suitable means for holding the ignited match; substantially as and for the purpose set forth.

4. The combination of a match-receptacle having a movable bottom, a device for taking a match out of the receptacle, suitable means for operating said bottom and device, means for receiving the match from the device for taking it and operated thereby and suitable means for igniting the match and holding the ignited match; substantially as and for the purpose set forth.

5. In a combined cigar cutter and lighter, the combination of a match-receptacle having a movable bottom, a device for taking a match from the receptacle, and means in con-

nection therewith for operating the bottom and device for taking the match from the receptacle, a cigar-cutter carried and actuated by the said device for taking a match and suitable means also operated by said match-taking device for receiving the match from it and raising it to be ignited; substantially as and for the purpose set forth.

6. The combination of a suitable casing having a match-receptacle formed therein and provided with a movable bottom pivoted upon a rivet shaft or pin located in said casing, a device for raising a match out of the receptacle also pivoted on said pin, suitable means for operating the said device and also for moving the bottom of the receptacle, a plunger working in said casing operated by the match-taking device and adapted to receive the match therefrom to raise the same for ignition; substantially as and for the purpose set forth.

7. The combination of a suitable casing having a match-receptacle formed therein, a movable bottom for said receptacle, a suitable device pivoted within the casing and adapted to take a match out of the receptacle, a plunger also located within the casing and adapted to receive the match from the match-taking device and raise the same to be ignited; substantially as and for the purpose set forth.

8. The combination of a suitable casing having a match-receptacle formed therein, a device for taking a match out of the receptacle, a plunger working in said casing and adapted to receive a match from the said device, suitable igniting device and a suitable guide for guiding the match into engagement with the igniting device; substantially as and for the purpose set forth.

9. The combination of a suitable match-receptacle provided with movable bottom, a groove formed in said receptacle into which a match is thrown by the movement of the bottom, a device for picking the match out of the groove, a plunger for taking the match from the picker for igniting the same, and means for igniting the match substantially as and for the purpose set forth.

10. The combination of a suitable casing, a match-receptacle in said casing, a match-picking device located in said casing for picking a match from the receptacle, a plunger also located in said casing and operated by the picker device for receiving the match from the picker and raising it to be ignited, suitable means for igniting the match, and a cutting-knife operated by the picking device substantially as and for the purpose set forth.

11. The combination of a match-receptacle, a match-picking device, adapted to pick a match from said receptacle and consisting of a curved head and a spring-arm bearing upon said head and between which the match is wedged, and a plunger operated by said picker in its movement upward from the match-re-



ceptacle adapted to receive the match from the picker and raise it to be ignited, substantially as and for the purpose set forth.

12. The combination of a match-receptacle,  
5 a device for picking up a match from the receptacle, a plunger for receiving the match for raising it, and a pair of serrated faces

located on opposite sides of the match-receptacle past which the match is forced for igniting it substantially as shown and described.

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Witnesses:

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JAMES B. HOWARD.