

(No Model.)

2 Sheets—Sheet 1.

P. LEVISON.
BICYCLE LANTERN.

No. 436,528.

Patented Sept. 16, 1890.

Fig. 1.

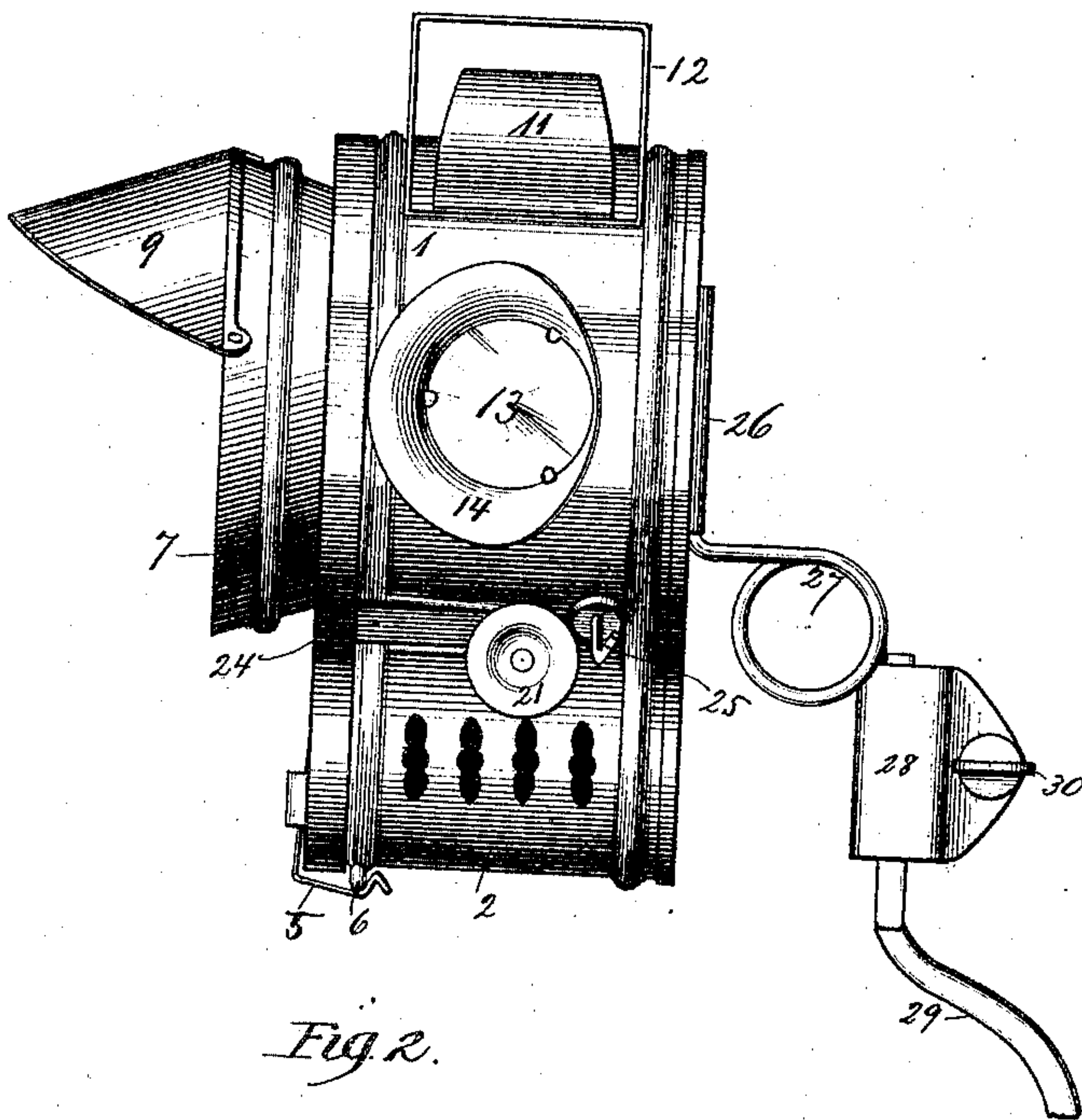


Fig. 2.

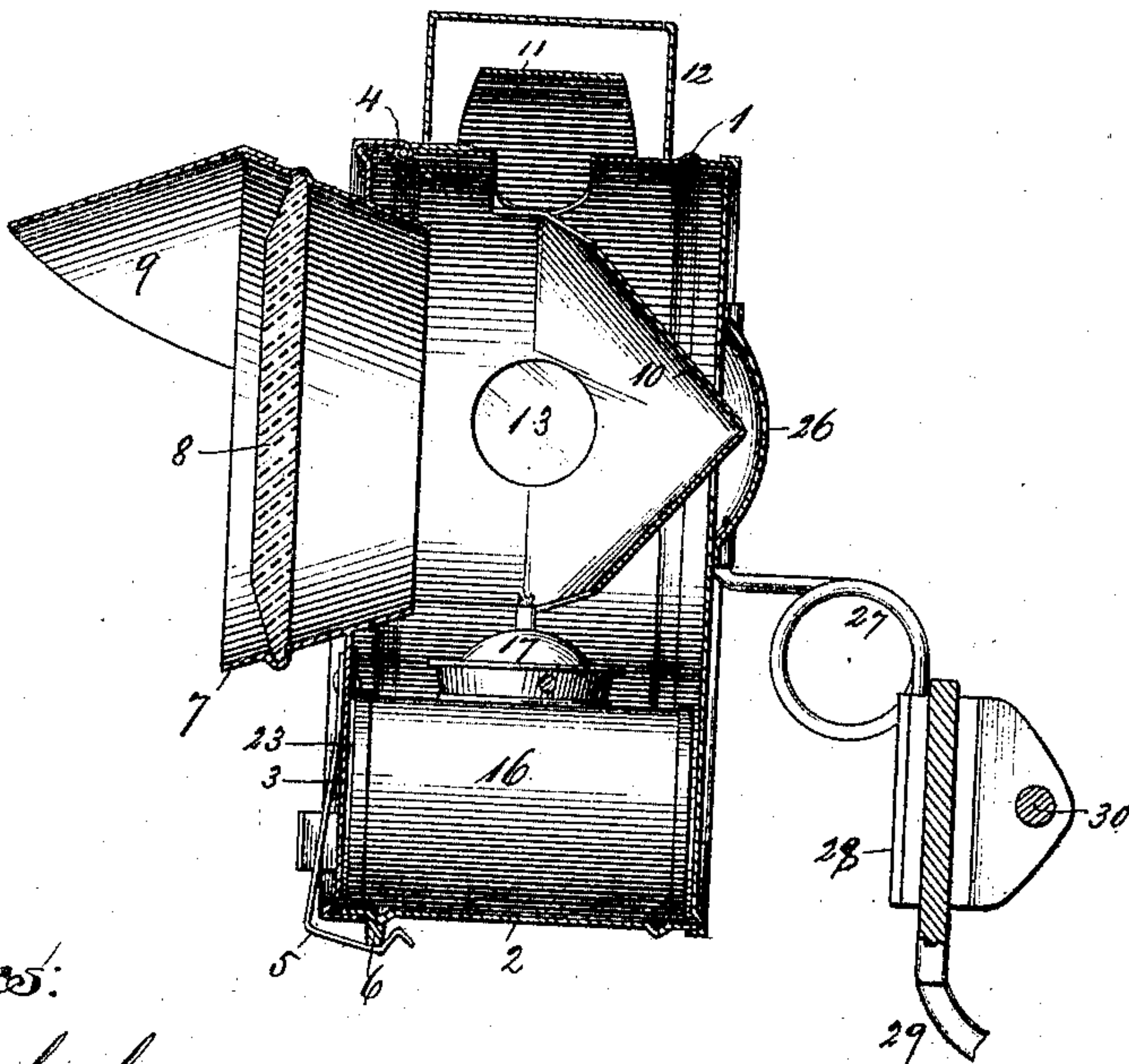
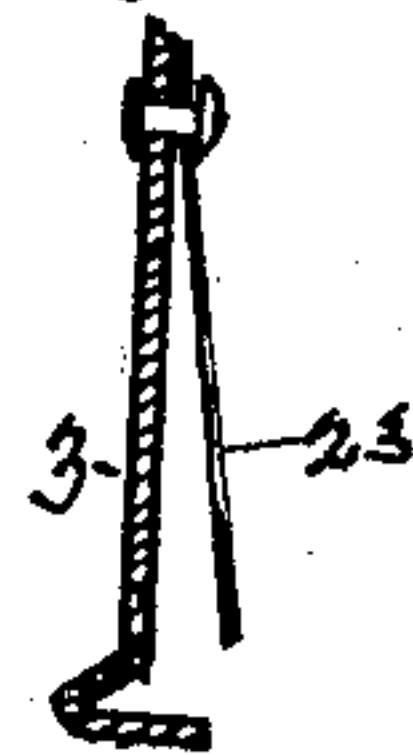


Fig. 2a.



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Attorney.

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Fig. 3.

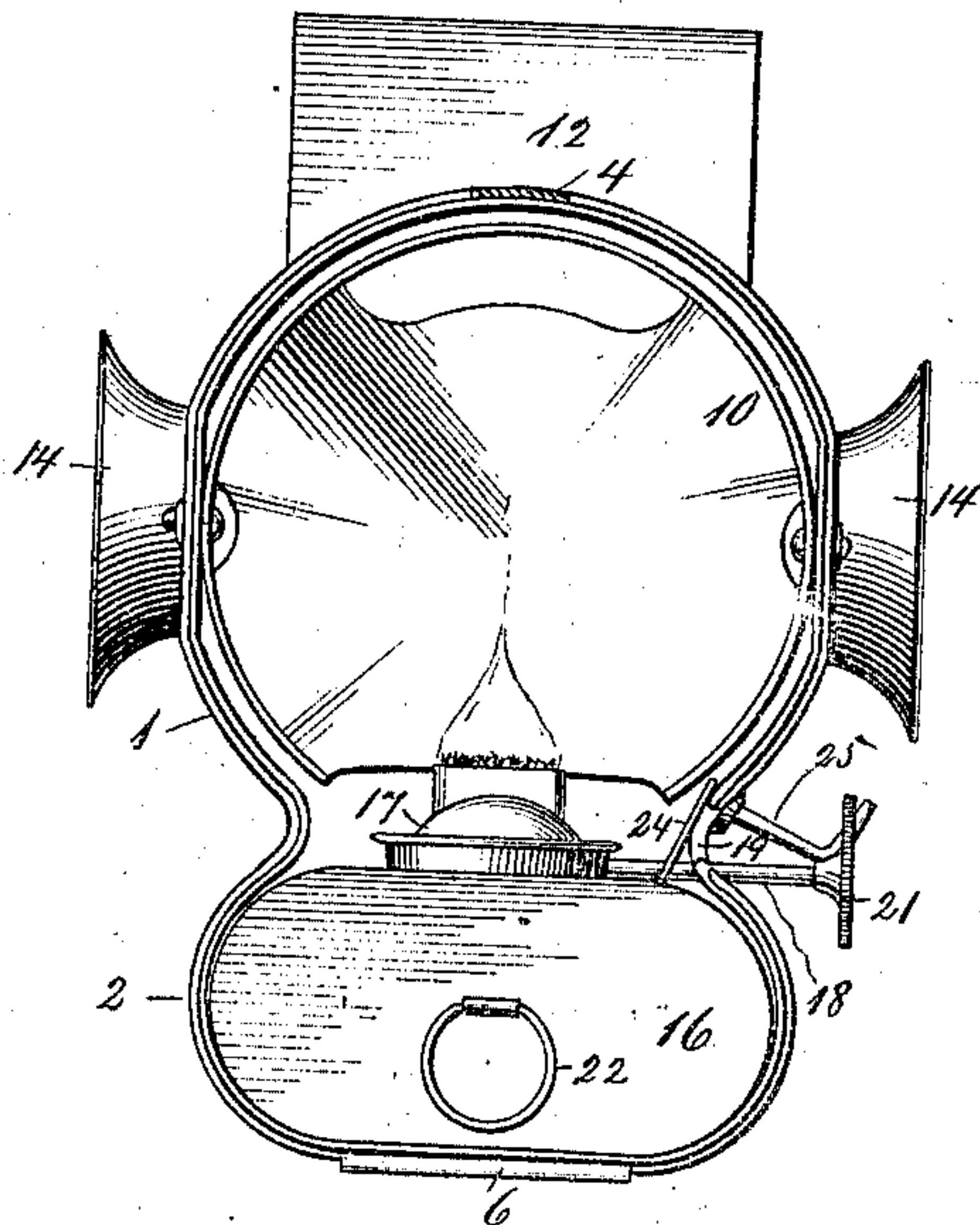


Fig. 4.

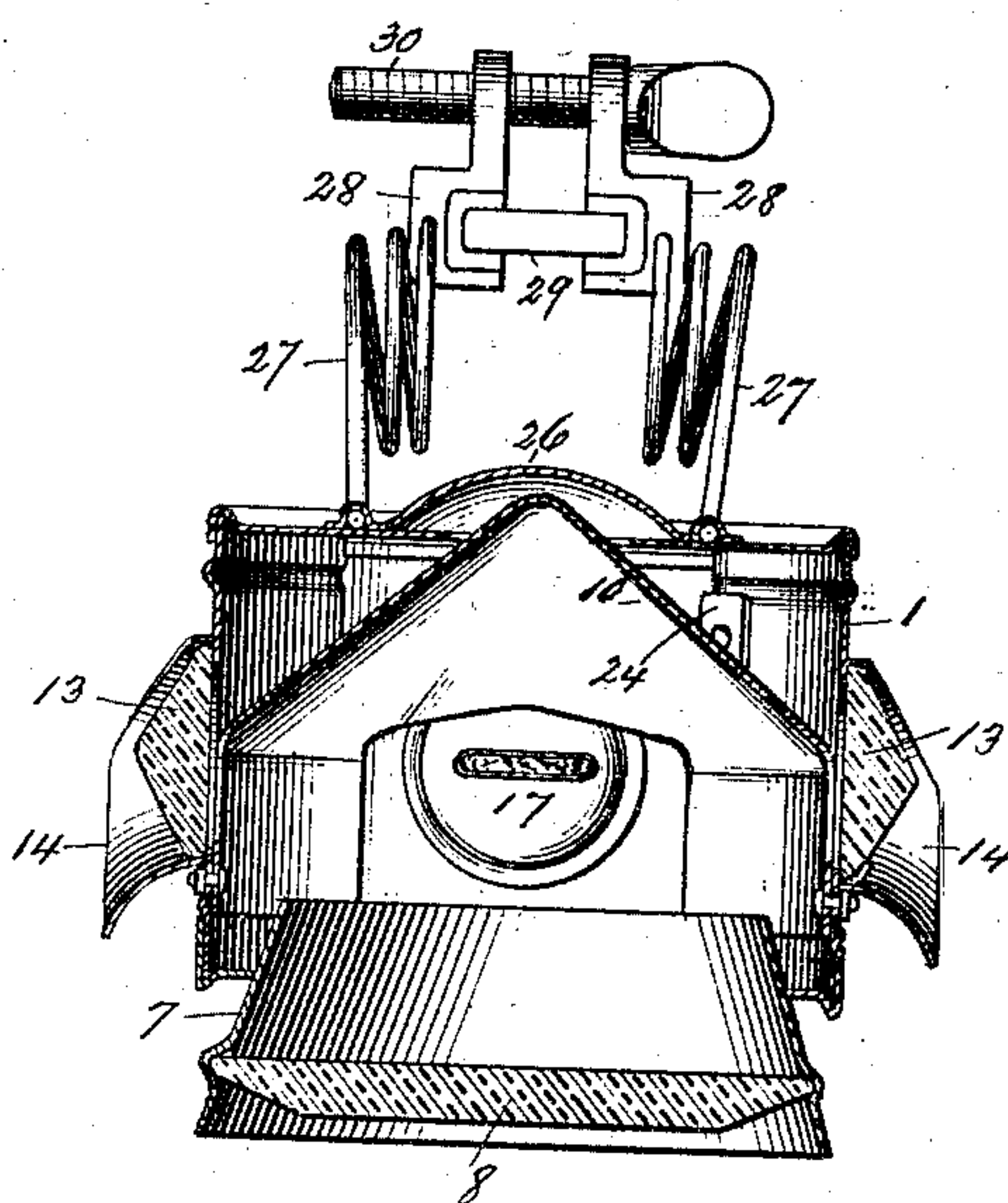


Fig. 5.

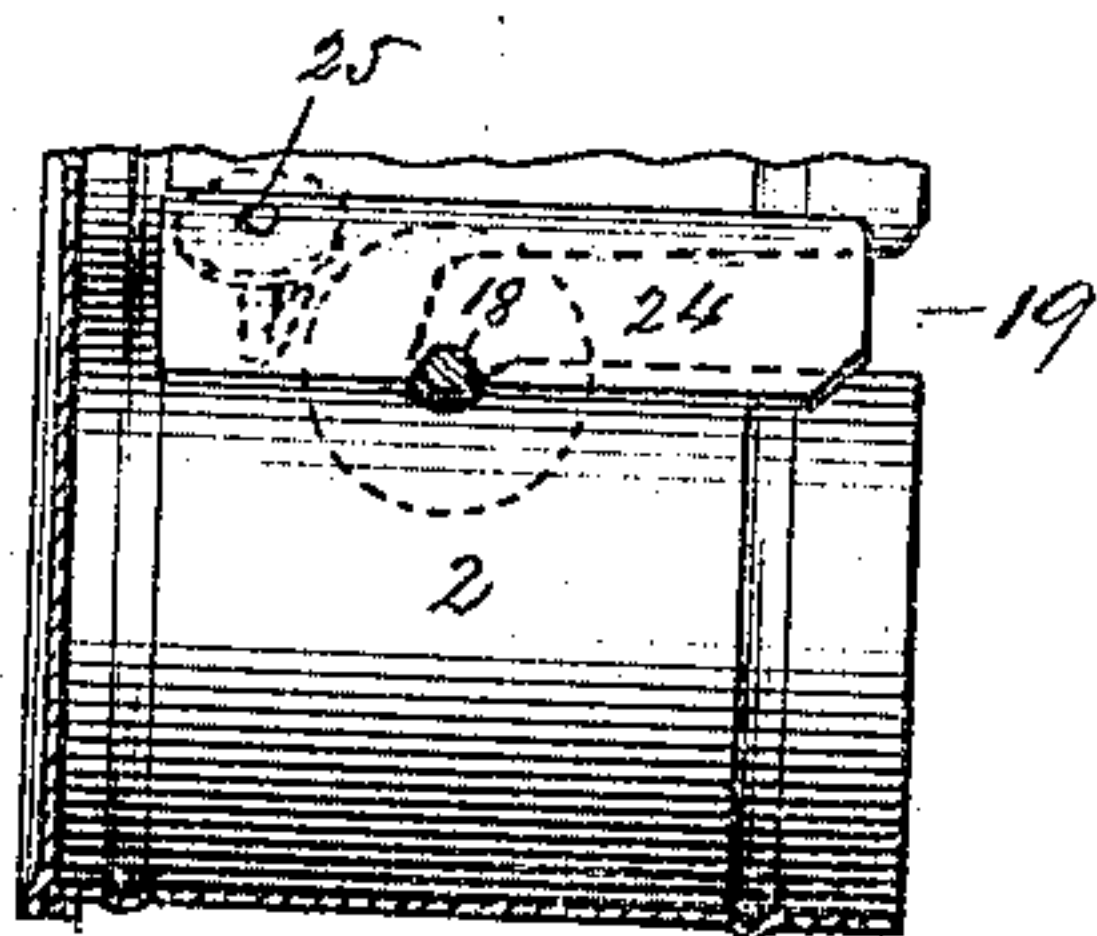
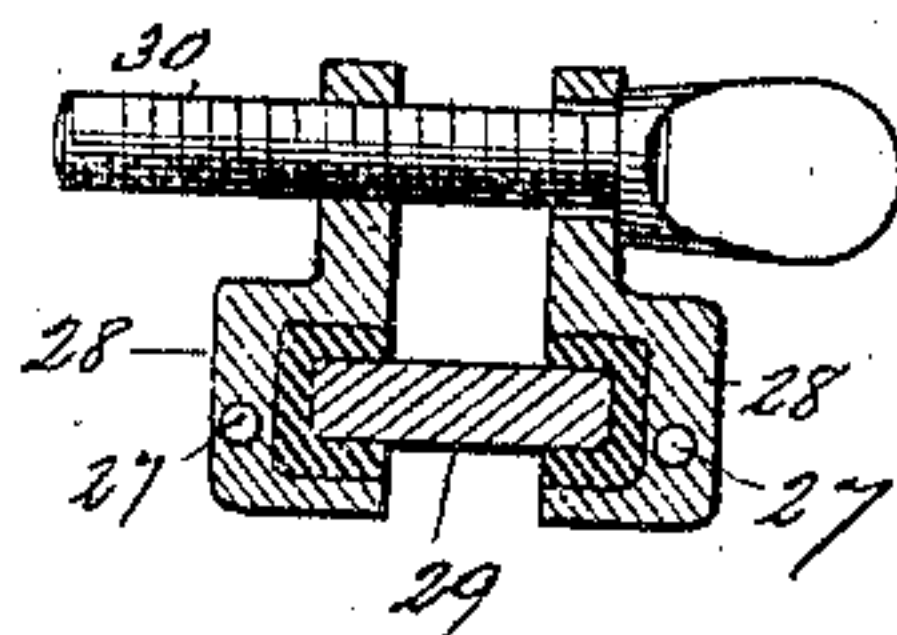


Fig. 6.



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UNITED STATES PATENT OFFICE.

PHILIP LEVISON, OF CHICAGO, ILLINOIS.

BICYCLE-LANTERN.

SPECIFICATION forming part of Letters Patent No. 436,528, dated September 16, 1890.

Application filed March 31, 1890. Serial No. 346,069. (No model.)

To all whom it may concern:

Be it known that I, PHILIP LEVISON, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Bicycle-Lanterns, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This my invention relates to lanterns particularly intended for Safety bicycles; and it has for its object to provide such a lantern that will have a removable oil-reservoir so attached that it will be held rigid in the lantern and will not rattle from the motions of
15 the bicycle; in which a conical or parabolic reflector is placed opposite to the lens so as to concentrate the rays of light upon the lens; which has provisions for igniting or extinguishing the light without opening the lantern, and which is provided with an adjustable clamp to be attached to bicycles of different construction and with spring-arms for supporting the lantern. With these objects
20 in view my invention consists of the novel devices and combinations of devices herein-after described and specifically claimed.

In the accompanying drawings, Figure 1 represents a side elevation of the lantern;
30 Fig. 2, a transverse vertical section of the same. Fig. 2^a is a detached view of a portion of the door or gate, showing the reservoir-holding spring expanded; Fig. 3, an inside view, the hinged front being removed;
35 and Fig. 4, a sectional plan of the lantern. Fig. 5 is a sectional interior view of the swinging gate for closing the opening through which to ignite or extinguish the wick, and Fig. 6 is a section of the screw-clamp for attaching the
40 lantern to a bicycle.

Corresponding referential characters in the several figures of the drawings designate like parts.

45 The casing of the lantern consists of the cylindrical part 1 and the oval part 2, connected therewith, all formed of a single strip of sheet metal and closed in the rear by a single sheet seamed or soldered thereto. The oval portion 2 affords a flat bottom for supporting the lantern when it is removed and
50 set down and also gives a large oil-space. The front 3 of the lantern is provided with

flanges that overlap the front edge of casing 1 and 2, being secured by hinge 4 at the top so as to swing upward for opening, and with
55 closing it is locked by a spring-clasp 5, engaging a ridge 6 of the bottom of casing 1. Into the circular portion of this front 3, a little below the center thereof, is secured in a circular opening a conical ring 7, partly extending inward, and in its expanded outward end
60 is inserted and secured the lens 8, which from above is protected by a projecting shield or deflector 9, secured to ring 7. Inside the casing 1 is secured a reflector 10, having a parabolic shape, its pointed rear end extending
65 through a small hole in the back of the casing. This reflector 10 has an oval hole in its top coinciding with a similar hole in the top of casing 1, covered by a curved cap 11, and
70 this again by a U-shaped cap 12, that is open on both sides, both these caps 11 and 12 being secured upon casing 1 to allow the escape of the gases. This reflector 10 is also cut out
75 in its bottom for clearing the wick, and it has round holes in its sides to coincide each with a lens 13 of colored glass, secured over a proper opening of casing 1 in a ring 14, each forming a reflector-shield made flaring and cut away toward the rear, so that the lens cannot be seen from the front, but only from the
80 side and rear of the lantern.

In the oval part 2 of the casing is removably inserted the similarly-shaped oil-reservoir 16, snugly fitting therein and having
85 screwed in its top face the wick-holder 17, the stem of the adjusting-wheel 18 of which enters a slotted opening 19 of the casing to project from a notch in the rear end of such slotted opening with the handle-knob 21 of such
90 stem to be exterior of the casing. To its front this oil-reservoir 16 has a ring 22 hinged thereto to fold flat against it, by which ring the reservoir can be pulled from out the casing, and the front 3 has attached a suitable
95 leaf-spring 23, which, with closing the front, will press against the end of the reservoir 16 for holding it by its tension against moving endwise. The slotted opening 19 is made sufficiently large for reaching through it with
100 a burning match to ignite the wick without opening the front or for blowing the light out, and this opening is closed by a plate 24 inside of the casing secured to a wire 25, pivotally

projected through the casing and having a crank-handle to its exterior end by which to swing such plate 24 for opening or closing this slot 19. The sides of the portion 2 of the casing are vertically slotted for admitting air to pass around the reservoir 16, and thence to the burning wick. Against the back of the casing is secured a plate 26, concaved in its middle for covering the pointed end of reflector 10 and forming two eyes for engaging the rectangularly-bent ends of two spirally-bent wires 27, the opposite ends of which are rigidly secured each to a clamp-jaw 28, grooved and lined in its groove with leather or rubber for engaging the bracket 29, that forms part of the bicycle-frame. Each jaw 28 has an eyed flange for a thumb-screw 30 to pass through the eye of one and abut with its head against the flange and being tapped through the eye of the other flange. By this means the lantern can be secured to bicycles of different size and construction by clamping the spring-wires 27, providing an elastic support for the lantern.

25 What I claim is—

1. The combination, with the casing 1 and 2, the parabolic reflector 10 secured therein, and the front 3, hinged to such casing, of colored lenses 13, secured to the sides of the casing, each provided with a flaring reflector projecting from the sides of such casing toward the front, top, and bottom of the lantern, substantially as set forth, for the purpose specified.

2. In a lantern, as and for the purpose described, the opening 19 and the plate 24, for closing such opening and secured to crank 25, pivoted in the casing, substantially as set forth.

3. A lantern for bicycles, supported on spiral spring-arms 27, each secured to a clamp-jaw 28, and a thumb-screw 30 for contracting said clamp-jaws, substantially as and for the purpose set forth.

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

PHILIP LEVISON.

Witnesses:

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OTTO LUEBKERT.