

No. 813,172.

PATENTED FEB. 20, 1906.

W. G. RANKIN.
LAMP BURNER.

APPLICATION FILED NOV. 10, 1905.

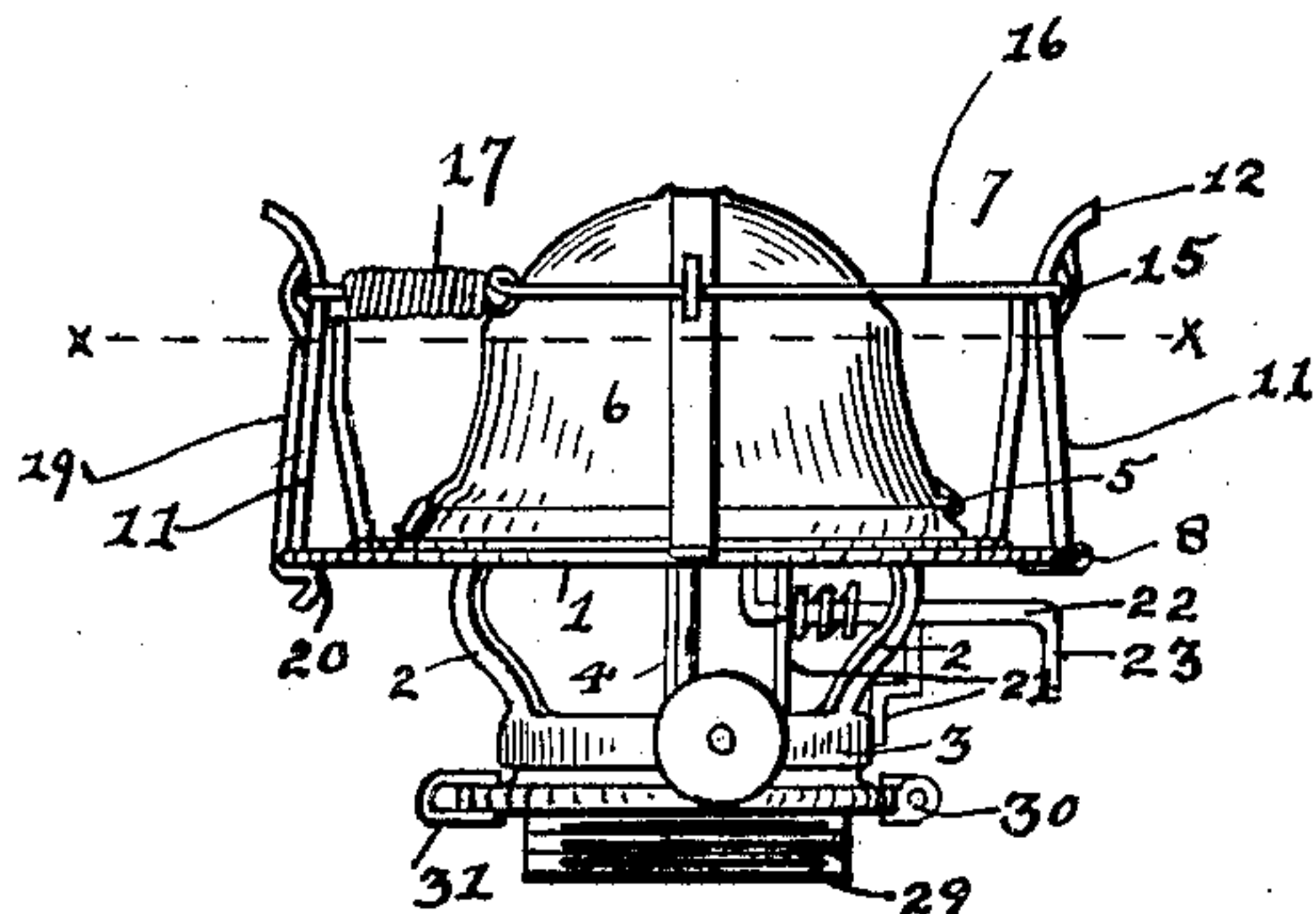


Fig. 1.

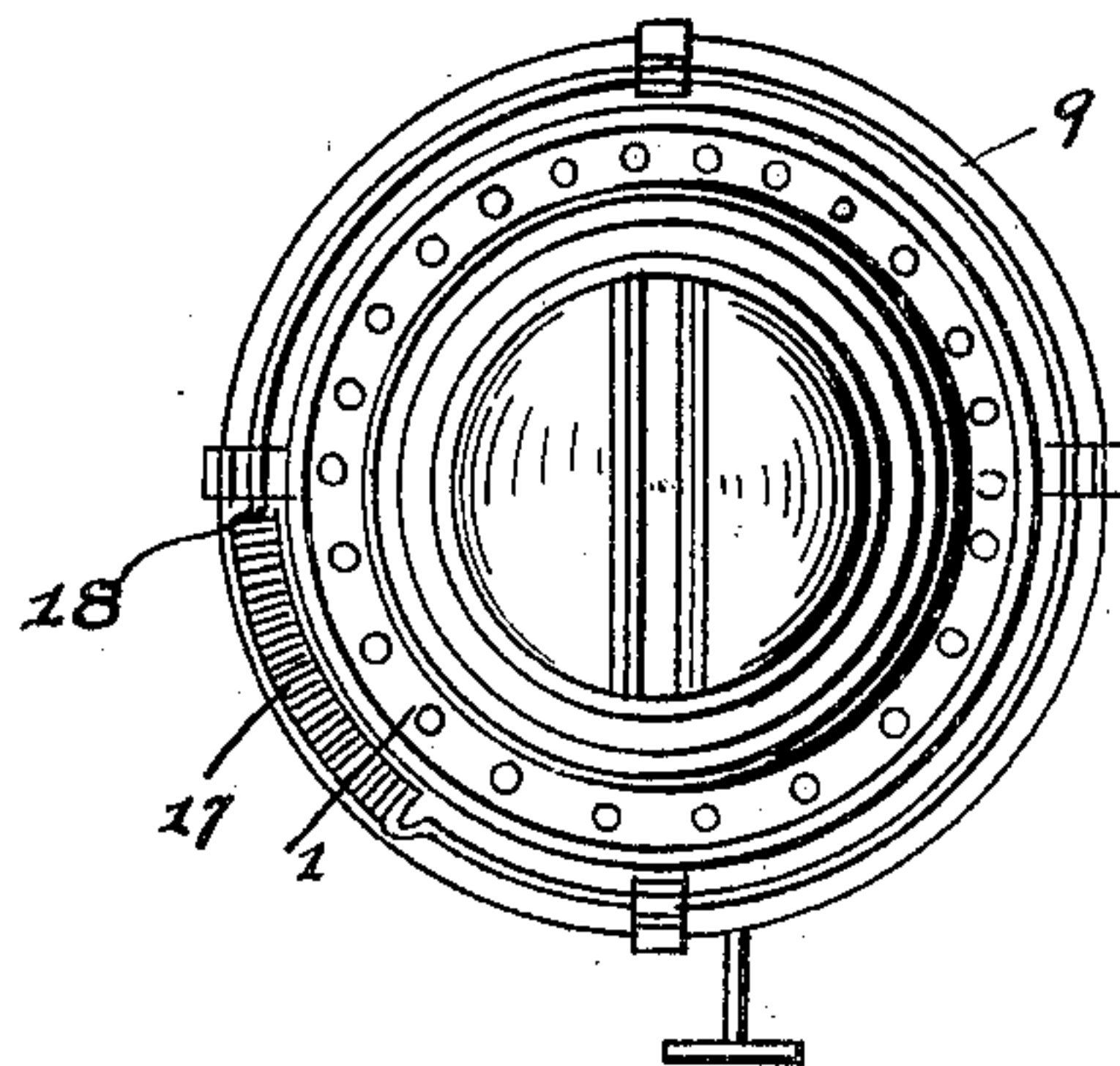


Fig. 3.

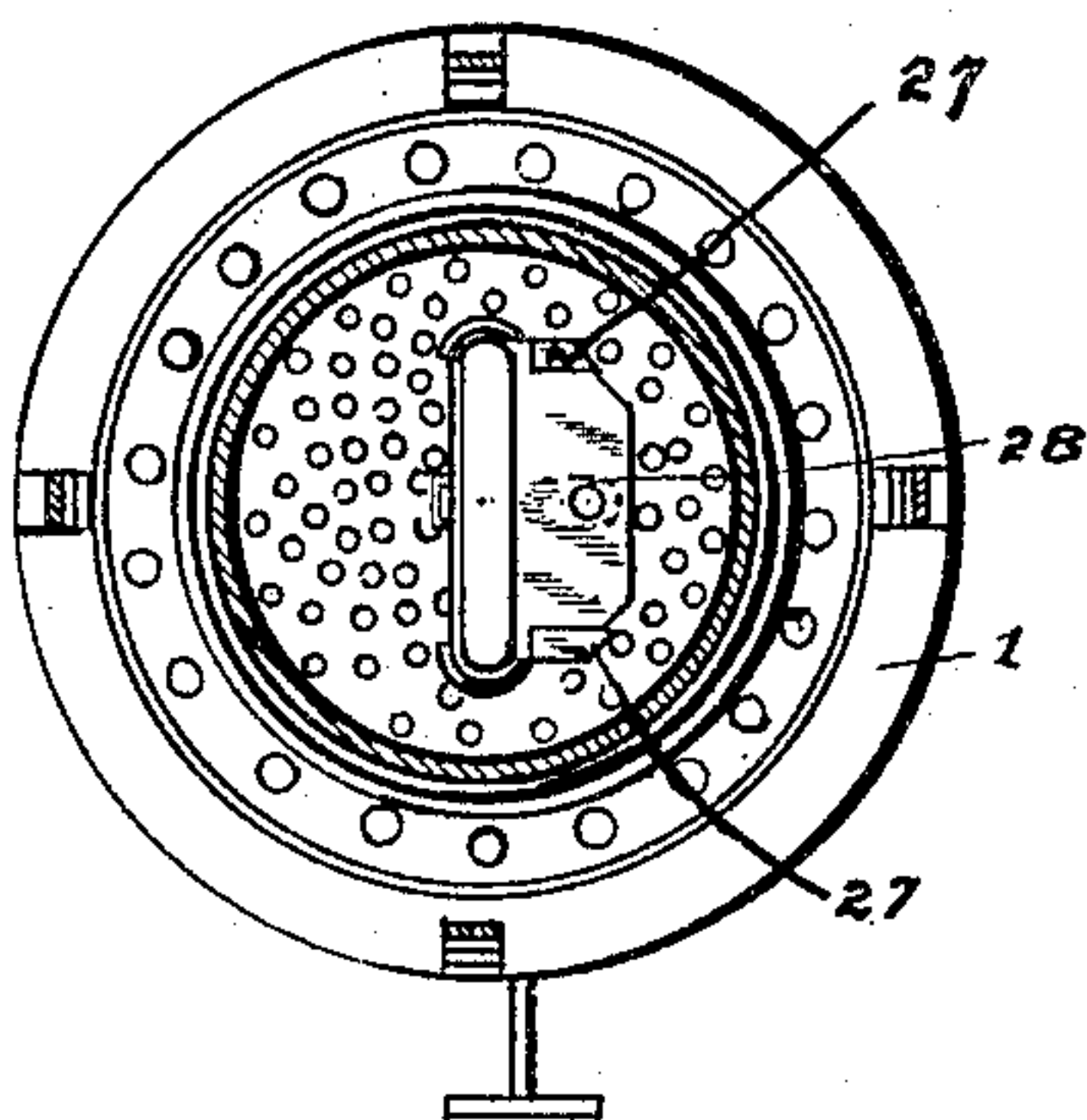


Fig. 2.

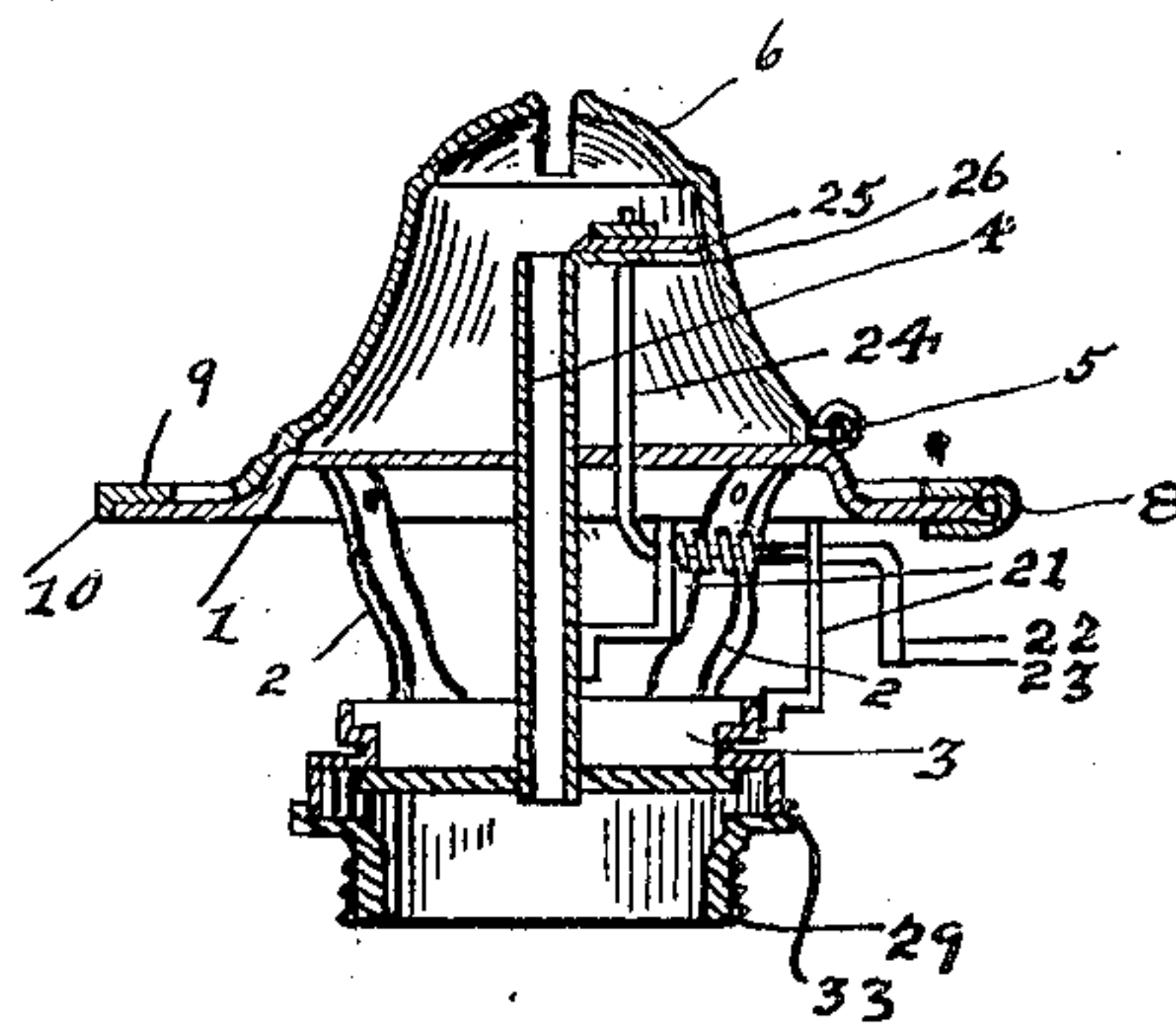


Fig. 4.

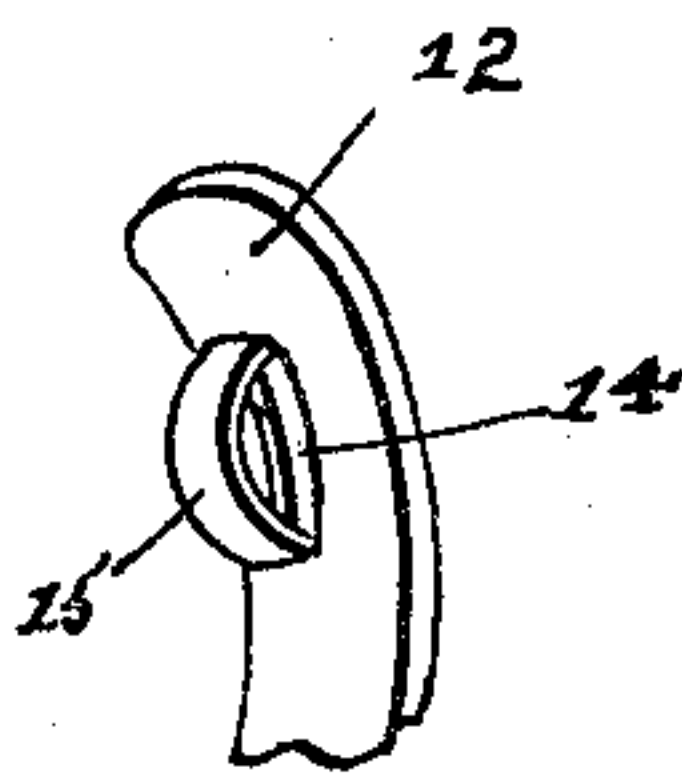


Fig. 5.

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UNITED STATES PATENT OFFICE.

WILLIAM G. RANKIN, OF COAL VALLEY, PENNSYLVANIA.

LAMP-BURNER.

No. 813,172.

Specification of Letters Patent.

Patented Feb. 20, 1906.

Application filed November 10, 1905. Serial No. 286,733.

To all whom it may concern:

Be it known that I, WILLIAM G. RANKIN, a citizen of the United States of America, residing at Coal Valley, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Lamp-Burners, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in lamp-burners; and the invention has for its object the provision of novel means for firmly retaining a chimney upon a burner.

15 Another object of this invention is to provide a chimney-holder which can be hinged to the burner proper, whereby when it is desired to light a lamp equipped with my improved burner it is only necessary to swing the chimney-holder upon its hinge without removing the chimney from the holder, as is the ordinary practice.

25 A further object of this invention is to provide a lamp-burner which will be extremely simple in construction, strong and durable, comparatively inexpensive to manufacture, and free from all danger of being injured.

30 A still further object of this invention is the provision of novel means in connection with a burner for extinguishing the light thereof, also novel means whereby the burner, together with its appurtenant parts, can be swung outwardly from the body of the lamp when it is desired to fill the same with oil or the like illuminating-fuel.

35 With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described and claimed, and referring to the drawings accompanying this application like numerals of reference designate corresponding parts throughout the several views, in which—

45 Figure 1 is a side elevation of my improved burner. Fig. 2 is a horizontal sectional view taken on the line $x x$ of Fig. 1. Fig. 3 is a plan of the burner. Fig. 4 is a vertical sectional view of the same. Fig. 5 is a perspective view of the upper end of one of the arms of the burner.

50 To put my invention into practice, I construct my improved burner of a perforated embossed plate 1, from which is suspended by straps 2 2 a collar 3. Vertically disposed within the collar 3 and the perforated plate 1 is a wick-tube 4, while hinged at one side of

the perforated plate, as at 5, is a cap 6 of a conventional form. My invention resides in a chimney-holder 7, which is hinged, as at 8, to the perforated embossed plate 1. The holder consists of an annulus or ring 9, which is flanged, as at 10, to engage the edges of the perforated embossed plate 1. The annulus or ring 9 is provided with a plurality of equally-spaced upwardly-extending spring-arms 11, the upper ends of said arms being bent outwardly, as at 12. The upper ends of the arms are sheared or cut, as at 14, and the material bent outwardly to form loops 15. Passing through said loops is a ring of wire 16, the one end of the wire being wound to form a spring 17, which is attached or connected to the opposite end of the wire, as at 18. The circular piece of wire is adapted to normally hold the arms 11 in a vertical position, at the same time permitting said arms to spread outwardly when a chimney (not shown) is placed in engagement with the chimney-holder. The ring of wire 16, together with the spring 17, is adapted to normally hold the arms 11 in engagement with a chimney, and thereby firmly hold it upon the holder 7 when the same is swung upwardly upon the hinge 8 of the burner.

To retain the chimney-holder in engagement with the perforated embossed plate 1, I provide one of the arms 11 with a depending spring-clip 19, which engages the under face of the perforated embossed plate 1, as at 20.

Another feature of my invention resides in the light and flame extinguisher adapted to snuff the wick, which passes upwardly through the wick-tube 4. The wick-tube, together with the collar 3, is provided with brackets 21 21, in which is slidably mounted a piece of wire 22, the one end of the wire being bent down to form a handle 23, while the opposite end of the wire is bent upwardly, as at 24. The upwardly-bent end of the wire is attached to a plate 25, said plate being slidably mounted upon a horizontally-disposed lip 26, carried by the one edge of the wick-tube 4. The lip is flanged upon its ends, as at 27 27, to retain the plate thereon, and said lip is slotted, as at 28, to permit of the movement of the wire 24 when it is desired to move the plate 25 over the wick-casing to snuff the flame of said wick. Still another feature of my invention resides in a screw-threaded collar 29, which is hinged, as at 30, to the collar 3. The screw-threaded

collar 29 is locked in engagement with the collar 3 by a hinged clamp 31, adapted to engage the flanges 32 and 33 of the collars 3 and 29, respectively.

5 From the construction just described it will be observed that the operation of filling a lamp with oil is easily accomplished by releasing the clamp 31 and swinging the burner and its appurtenant parts upon its hinge 30, and when it is desired to extinguish the lamp
10 it is only necessary to push inwardly upon the handle 23 of the wire 22, at which time the plate 25 will be moved over the wick-casing to snuff the flame of the wick thereof.

15 My invention particularly resides in the novel form of chimney-holder which I have employed, together with the novel means for retaining the chimney in engagement with said holder.

20 I do not care to confine myself to the type of burner in connection with which my improved chimney-holder is used, and such

changes in the construction and operation of my improved burner as are permissible by the appended claim may be resorted to without departing from the spirit and scope of the
25 invention.

What I claim, and desire to secure by Letters Patent, is—

In a lamp-burner, the combination with a
30 collar adapted to be screwed into the oil-receptacle, of a second collar hinged to the first-named collar and provided with upwardly-extending arms; a perforated plate carried by said arms, a ring hinged to said perforated
35 plate and spring-arms carried by said ring and adapted to embrace a lamp-chimney.

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

WILLIAM G. RANKIN.

Witnesses:

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E. E. POTTER.