

No. 814,591.

PATENTED MAR. 6, 1906.

C. H. DRESSEL.
LAMP BURNER.

APPLICATION FILED SEPT. 20, 1905.

Fig. 2

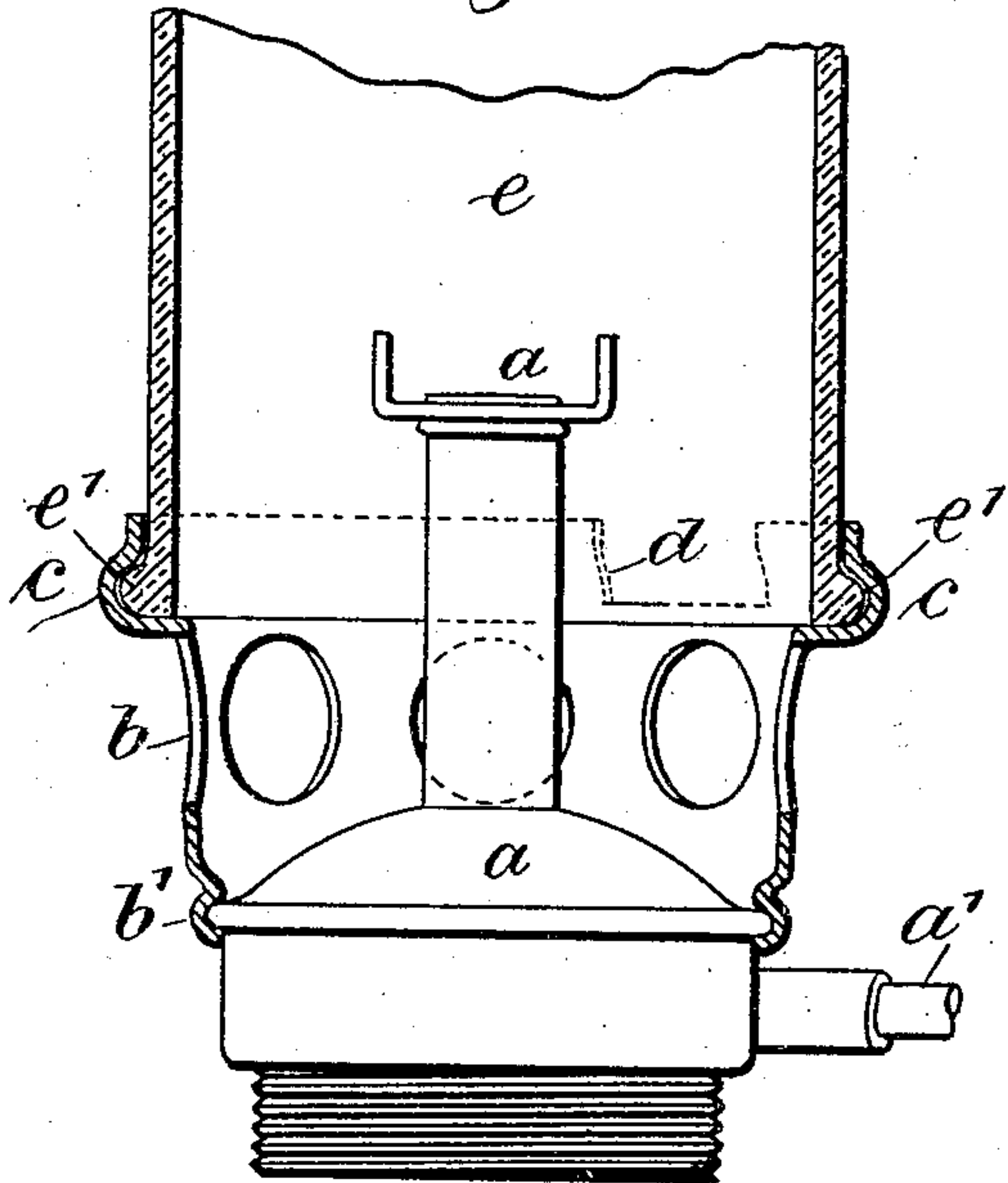


Fig. 3.

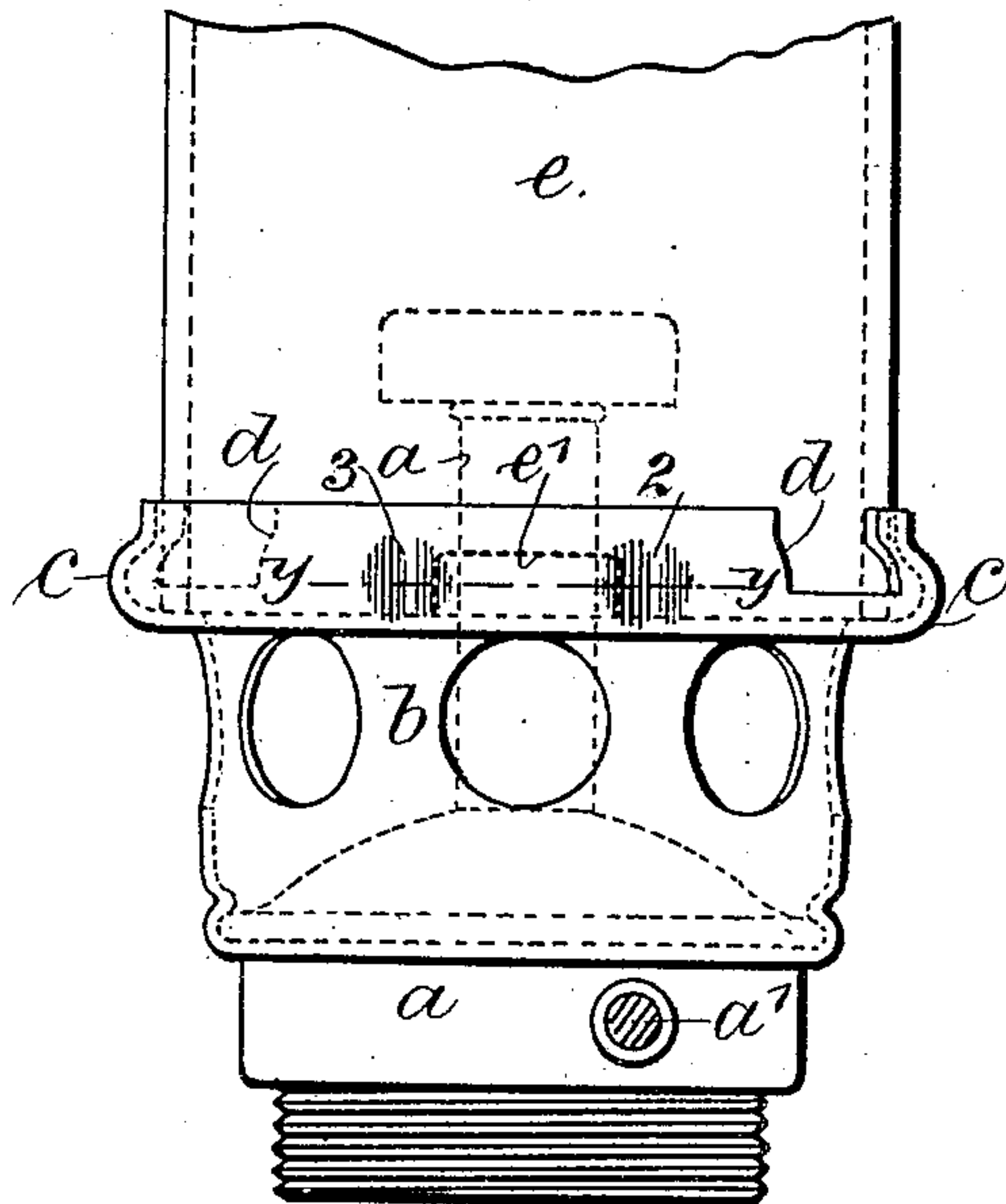


Fig. 1.

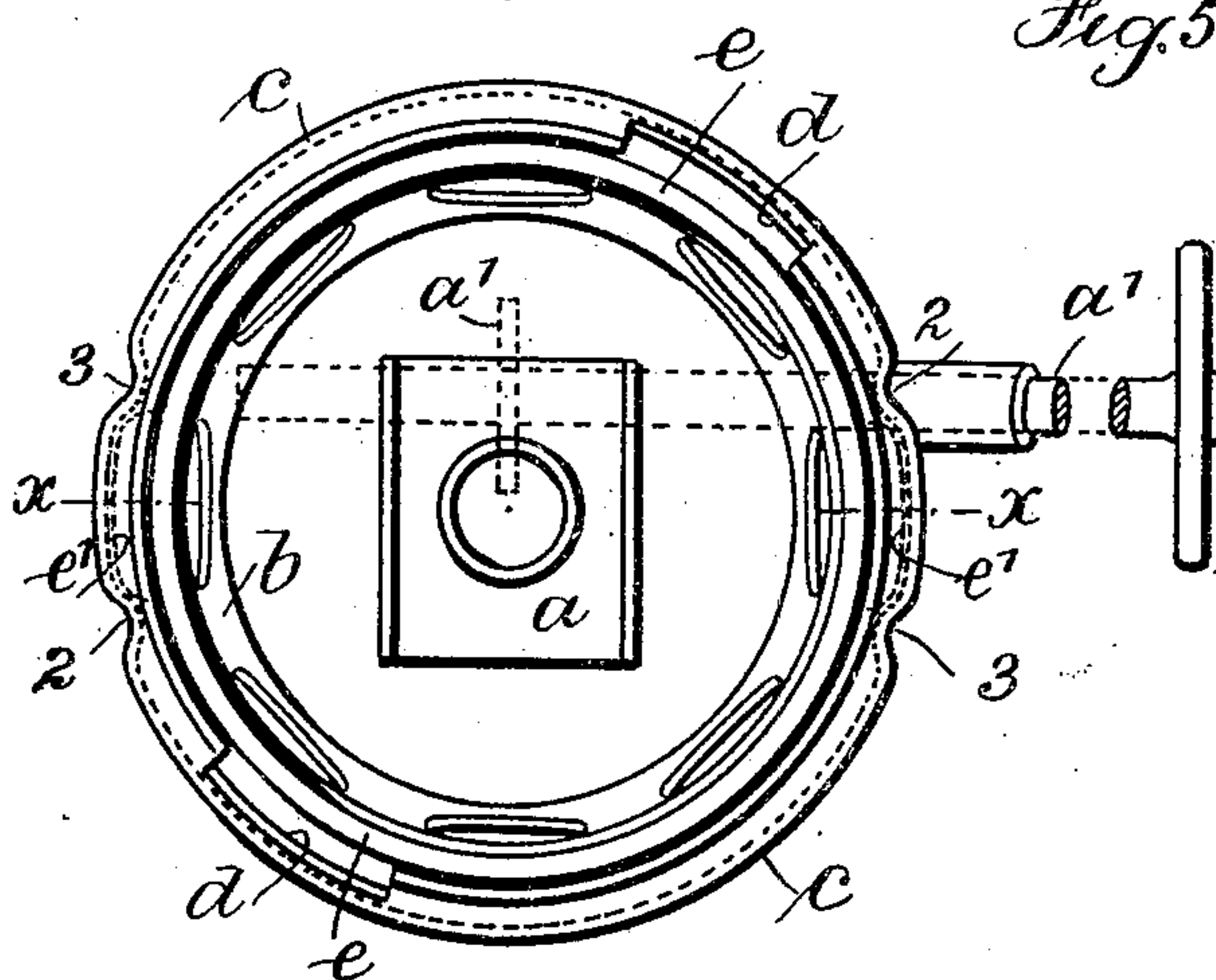


Fig. 5.

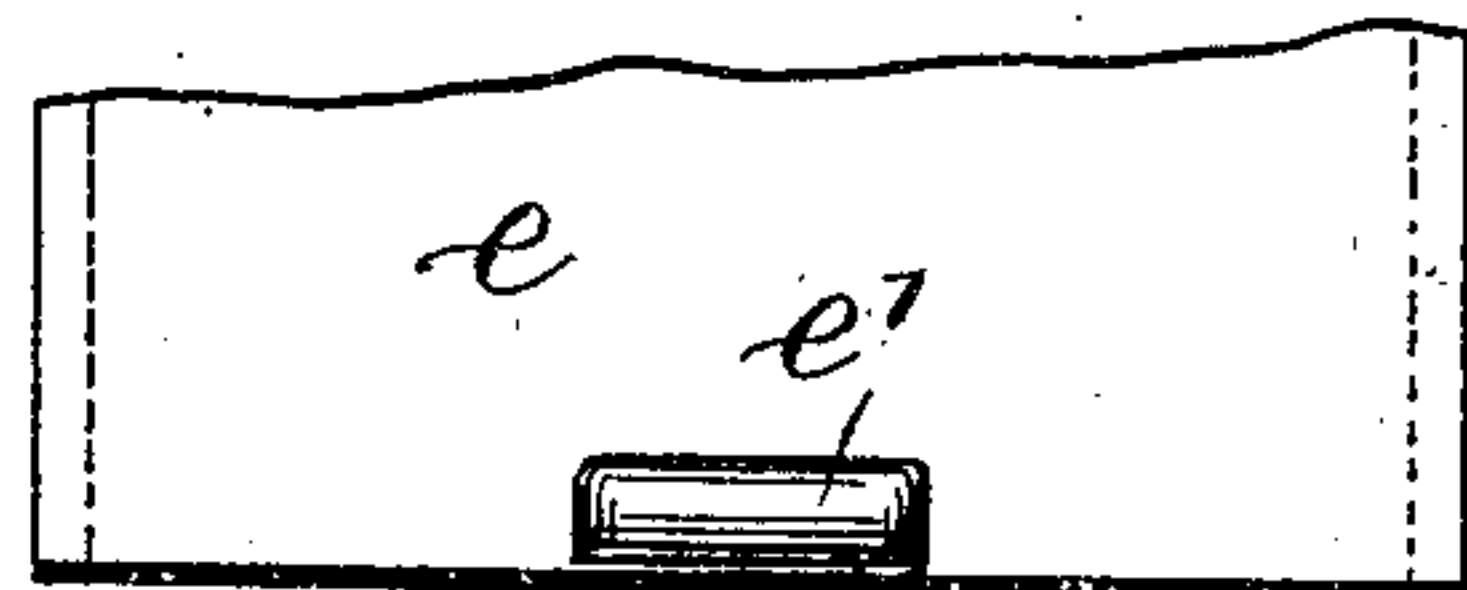
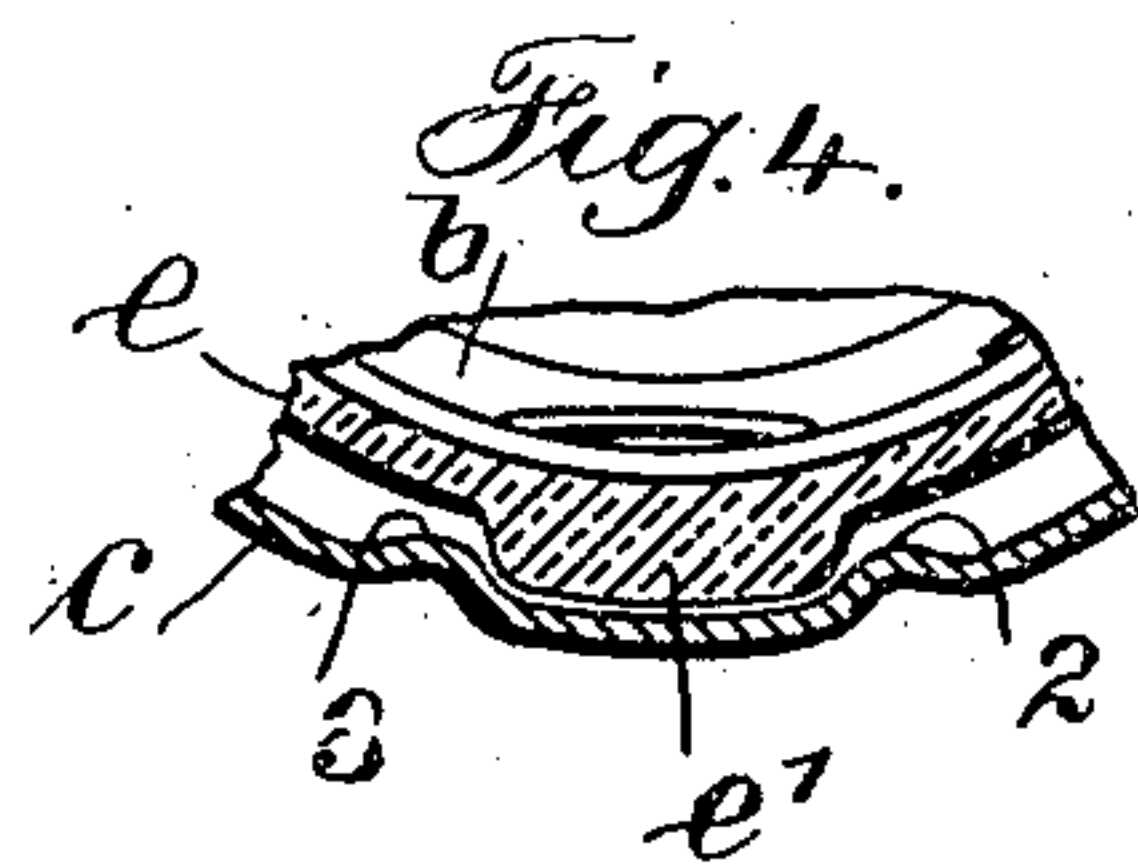


Fig. 4.



Witnesses

Chas. Smith
H. Dressel

Inventor

Charles H. Dressel
per Harold Terrell

attg.

UNITED STATES PATENT OFFICE.

CHARLES H. DRESSEL, OF NEW YORK, N. Y., ASSIGNOR TO THE DRESSEL RAILWAY LAMP WORKS, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

LAMP-BURNER.

No. 814,591.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed September 20, 1905. Serial No. 279,244.

To all whom it may concern:

Be it known that I, CHARLES H. DRESSEL, a citizen of the United States, residing in the borough of Manhattan, in the city, county, and State of New York, have invented an Improvement in Lamp-Burners, of which the following is a specification.

My invention has particular reference to such small burners and their chimneys as are usually employed in signal and other similar lanterns; and the object of my invention is the ready removal of such chimneys from their support in the burners and equally ready insertion of the same to place, the chimney being supported against the vibration of use to which said lanterns are subjected.

In the device of my invention the burner-gallery is formed with an internal annular groove in a rim at the upper end, through which notches are formed at opposite sides, and at similar sides of each notch the groove is made with slight internal projections at spaced-apart intervals. The chimney at one end is provided with rib-sections upon the outer surface at opposite sides, which in length agree substantially with the aforesaid notches and with the distance between the said projections, and when the chimney is put into position the rib-sections are passed down the notches and turned into the groove, passing the first projections and into the spaces between the two projections of each side, where the ribs are held substantially locked except for force required to dislodge the same in removing the chimney.

In the drawings, Figure 1 is a plan representing the devices of my improvement. Fig. 2 is a vertical section and partial elevation on substantially the dotted line *x x* of Fig. 1. Fig. 3 is an elevation at one side, showing a notch and the outer depressions which form the inner projections. Fig. 4 is a sectional plan at *y y* of Fig. 3; and Fig. 5, an elevation at the lower end of the chimney, showing one of the ribs.

a represents the burner, and *a'* the wick-raiser, of one of the said small burner devices, such as are used in signal and other similar lanterns, especially in railroad-work.

b is a chimney gallery or support secured at the lower end *b'* to a rib of the burner by spinning the lower end over said rib. The upper end of the chimney support or gallery is pro-

vided with a grooved rim *c* and with notches *d* at opposite sides, and the grooved rim adjacent to and on similar sides of the opposite notches is provided with internal projections 2 3. These are recesses on the outer surface and projections on the inner surface.

The chimney *e* at the lower end and at opposite sides is provided with ribs *e'* of appreciable length, but of less length than the length of the notches *d*, and of such vertical cross-section as to closely fit the grooved rim *c*. This grooved rim is at the upper portion of the gallery of the burner, and when the chimney is to be placed in the burner the ribs are passed down into the notches *d*, which will bring the ribs *e'* of the chimney into the same horizontal plane as the groove of the rim *c*. The chimney is then slightly turned to bring the rib into the groove. As soon as the ribs enter the grooves they come against the projections 2, and the chimney should be further turned until the ribs pass the projections 2 and come between the projections 2 and 3, which act as stops to substantially lock the chimney in place in the rim *c*, which forms a support therefor and holds the chimney down.

It is to be understood that there is sufficient looseness in the parts to compensate for any expansion of the chimney when heated, and when the chimney is to be removed from its support the reverse movement must be made, so as to pass the ribs by the projections 2 and bring them out into the notches *d*, where they are free to be raised with the chimney in separating the chimney completely from the burner.

In forming the notches *d* the support or rim *c*, that is grooved, is cut away from its upper edge down to substantially its greatest diameter. This practically bisects the groove and permits the ribs of the chimney to settle halfway in the grooves before the chimney is turned.

My improved burner is simple in its construction and operation and is easily made. It is light and comprises few parts.

I claim as my invention—

1. In a lamp-burner, a chimney gallery or support having a rim internally grooved at its upper part, in combination with a chimney having ribs at one end and at opposite sides and cut-away portions providing an entrance for the ribs of the chimney to the

grooved rim of the gallery and means coming at each end of the ribs of the chimney for firmly holding the chimney in place.

2. The combination in a lamp-burner, with
5 a chimney having ribs at one end and at opposite sides, of a lamp-burner having a gallery or support and a grooved rim provided with notches at opposite sides of a length in excess of the length of the ribs of the chimney, and
10 means connected with said grooved rim and adapted to come at opposite ends of the ribs of the chimney to hold the chimney in place in said rim.

3. The combination in a lamp-burner, with
15 a chimney having ribs at one end and at opposite sides, of a lamp-burner having a gallery or support and a grooved rim provided with

notches at opposite sides of a length in excess of the length of the ribs of the chimney, and projections of the rim extending into the
20 groove to an appreciable extent and separated a distance in excess of the length of the ribs of the chimney, said ribs being adapted to be forced past the first projections and come to a position of rest between the said
25 projections where they are held and the chimney supported thereby.

Signed by me this 15th day of September, 1905.

CHARLES H. DRESSEL.

Witnesses:

GEO. T. PINCKNEY,
S. T. HAVILAND.