

H. A. FOX.

Lantern.

No. 43,303.

Patented June 28, 1864.

Fig. 1.

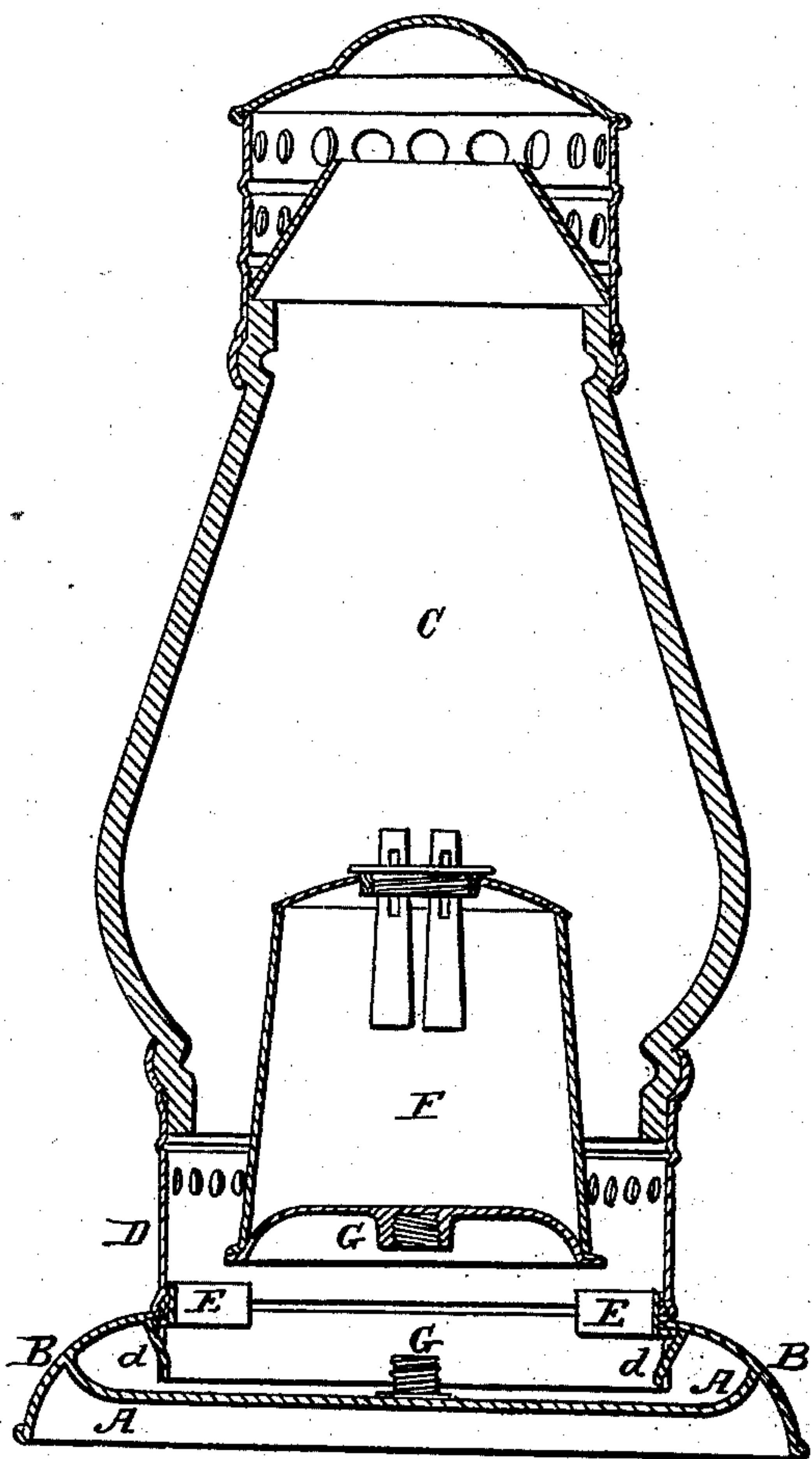


Fig. 2.

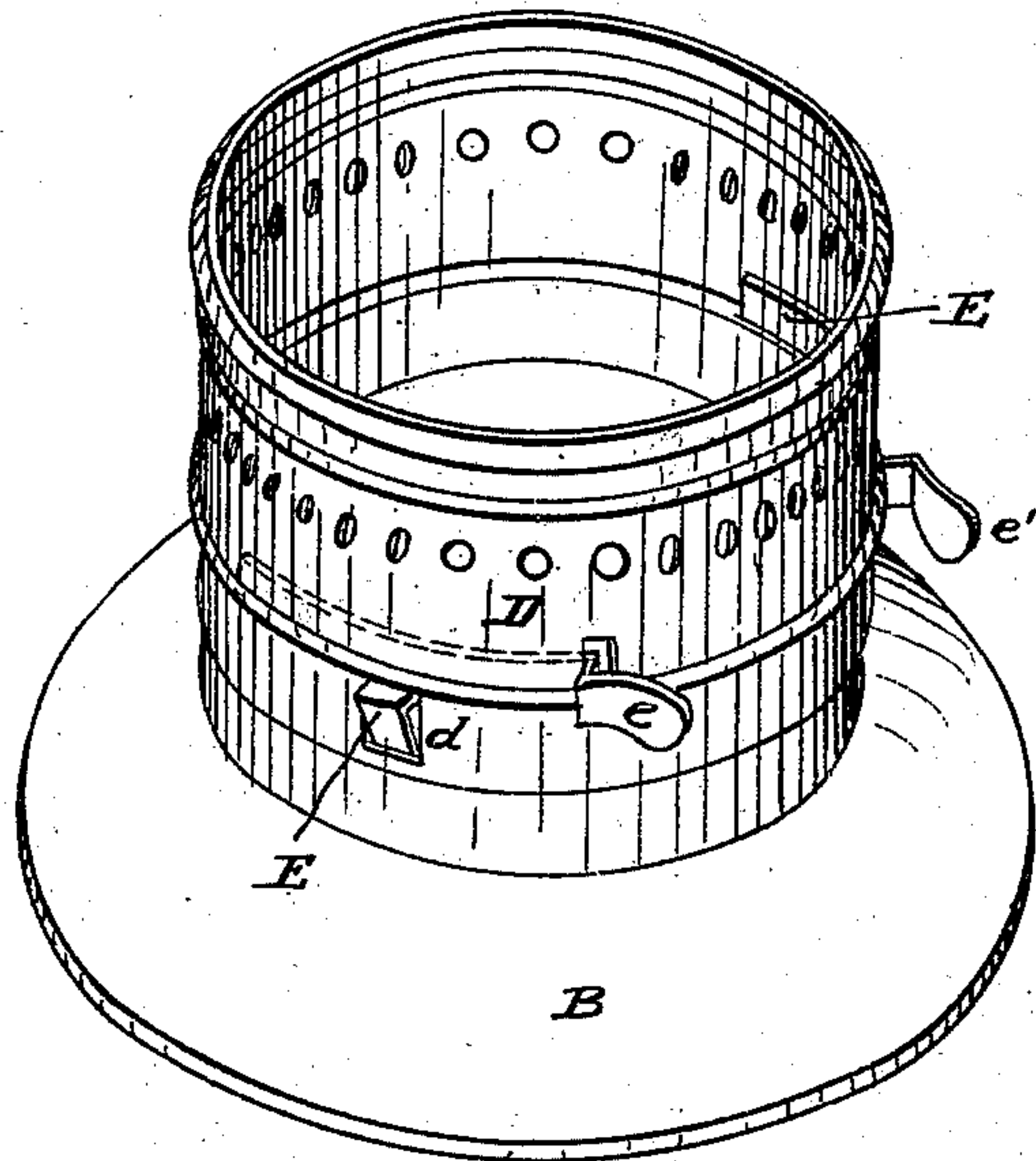
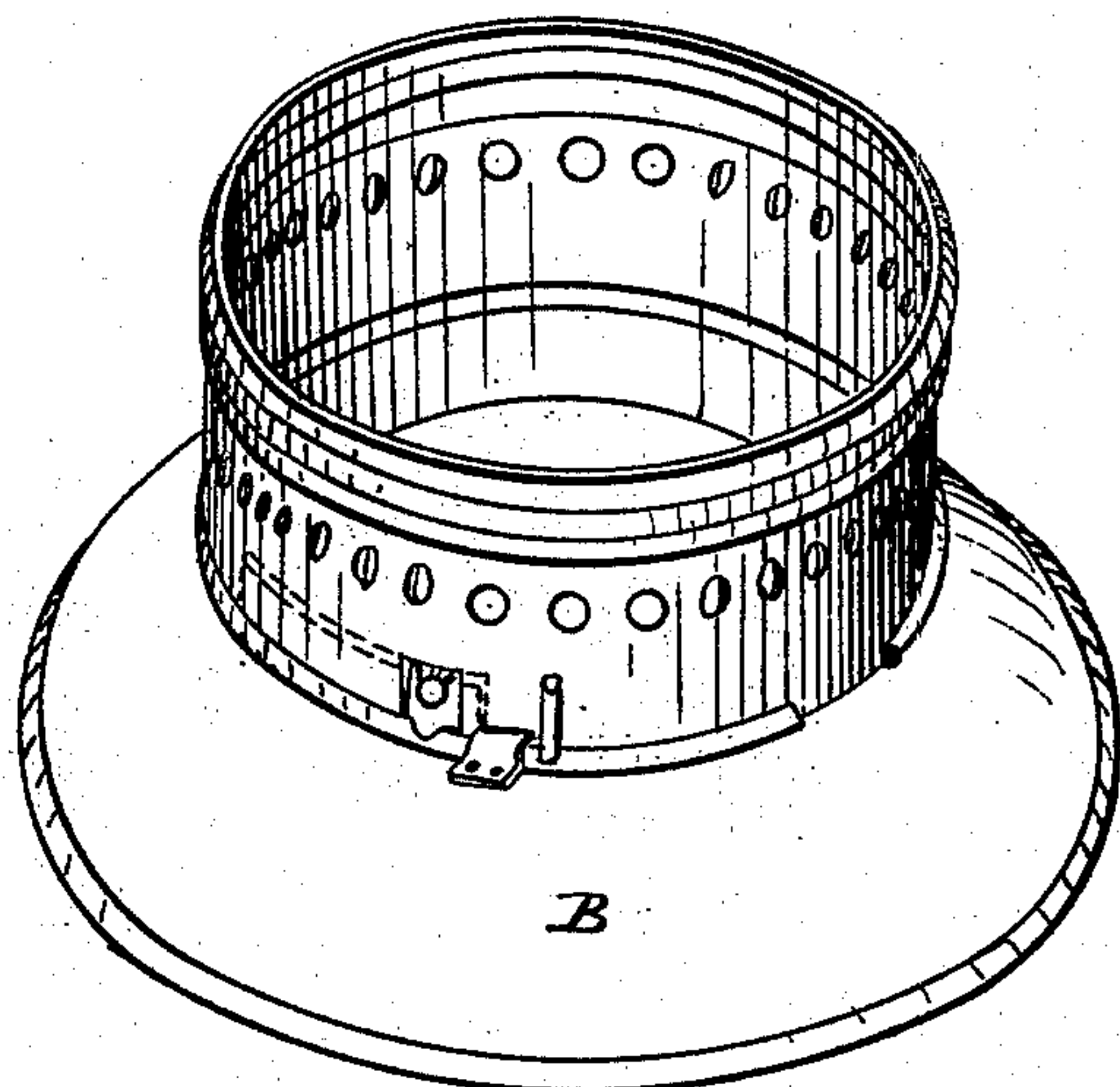


Fig. 3.



Witnesses:

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per Wright Bros
Atty

UNITED STATES PATENT OFFICE.

HENRY A. FOX, OF CINCINNATI, OHIO.

IMPROVEMENT IN LANTERNS.

Specification forming part of Letters Patent No. 43,303, dated June 28, 1864.

To all whom it may concern:

Be it known that I, HENRY A. FOX, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Lanters; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

It is believed that all oil-burning lanterns commonly used on board of steamboats, railroad-cars, and other vehicles are liable to spill their contents, a fact made evident by the grease-stained surroundings which mark the place where the lantern swings. Such spillage proceeds from various causes inseparable from the use of the common lantern, and may arise from violent agitation, or an excess of oil or of wick, or from an insufficiently-closed cap or otherwise. The evil is of course greatly aggravated when such lanterns are carried to and fro and from end to end of a crowded train.

My invention relates to, first, a provision for preventing the escape or spillage of oil from a lantern; secondly, an improved device for the ready attachment and detachment of the reservoir.

Figure 1 is an axial section of a lantern embodying my invention. Fig. 2 is a perspective view of the base and rim detached. Fig. 3 shows my base adapted to another form of catch.

My lantern-base is composed of a disk and one annulus. These pieces, having been spun or struck up so as to assume, respectively, the dishing forms A and B, are soldered or otherwise united to each other, and become a cup or receptacle, A B, which serves to catch all of the oil which spills or runs over from the lamp, and whose inturned flange B serves to securely retain such oil, however carelessly the lantern may be handled.

The curb B may, in addition to its above use, be made available as part of the device for securing the base to the shade or globe C.

The foot or lower rim, D, of the shade has attached to its inner side two spring-catches, E E', which, protruding through apertures *d* in said rim, can be caused to snap or engage under the curb B by simply pressing downward on the shade. The free extremities of the springs E E' take the form of lips *e e'*, which, being pressed toward each other by the thumb and finger of the operator, enable the separation of the shade from the base.

The reservoir F may be secured to the base by means of a screw attachment G, so as to enable the ready removal of the reservoir whenever it may be desired to clean out the receptacle A B, or to replace an empty lamp with a full one or one of another kind.

It will be seen that my base is both stronger and of simpler construction than those of the customary form which possess a cylindrical rim for attachment of the shade.

I have selected to illustrate my invention the form preferred and successfully manufactured by me, but I do not propose to restrict the improvement to the above precise combination, my invention being manifestly susceptible of various modifications without impairing its essential feature of preventing spillage, as, for example, my oil-receptacle A B may be used in connection with a form of catch such as represented in Fig. 3.

I claim herein as new and of my invention—

1. The provision in a lantern of the cup formed or curbed base A B, adapted to catch and retain the waste oil and prevent spillage, as herein explained.

2. The curbed base A B in the described combination with the detachable reservoir F G.

In testimony of which invention I hereunto set my hand.

HENRY A. FOX.

Witnesses.

GEO. H. KNIGHT,
JABEZ E. PRICE.