

No. 704,422.

Patented July 8, 1902.

H. H. ZIMMERMAN.

LAMP BURNER.

(Application filed Oct. 29, 1901.)

(No Model.)

Fig. 1.

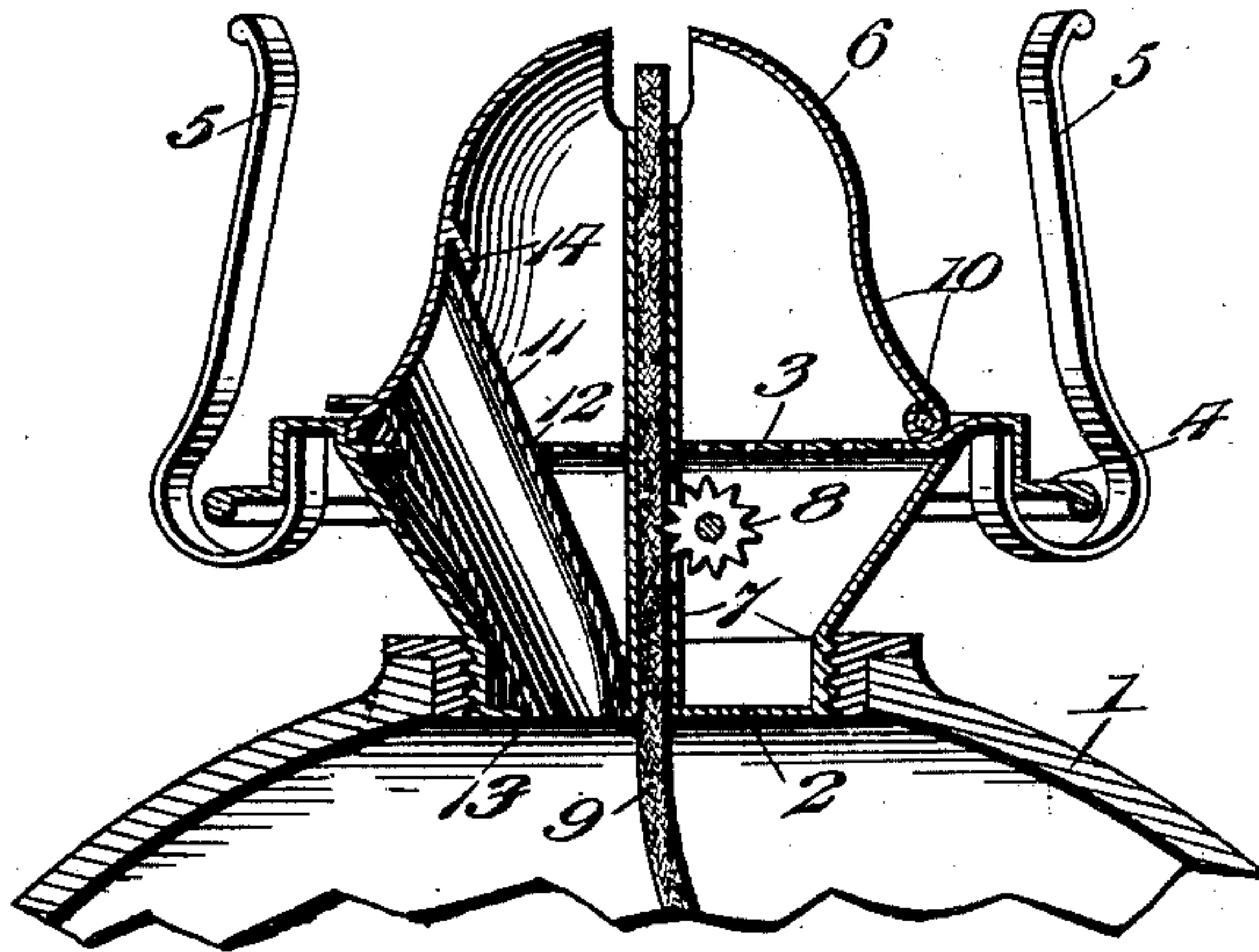
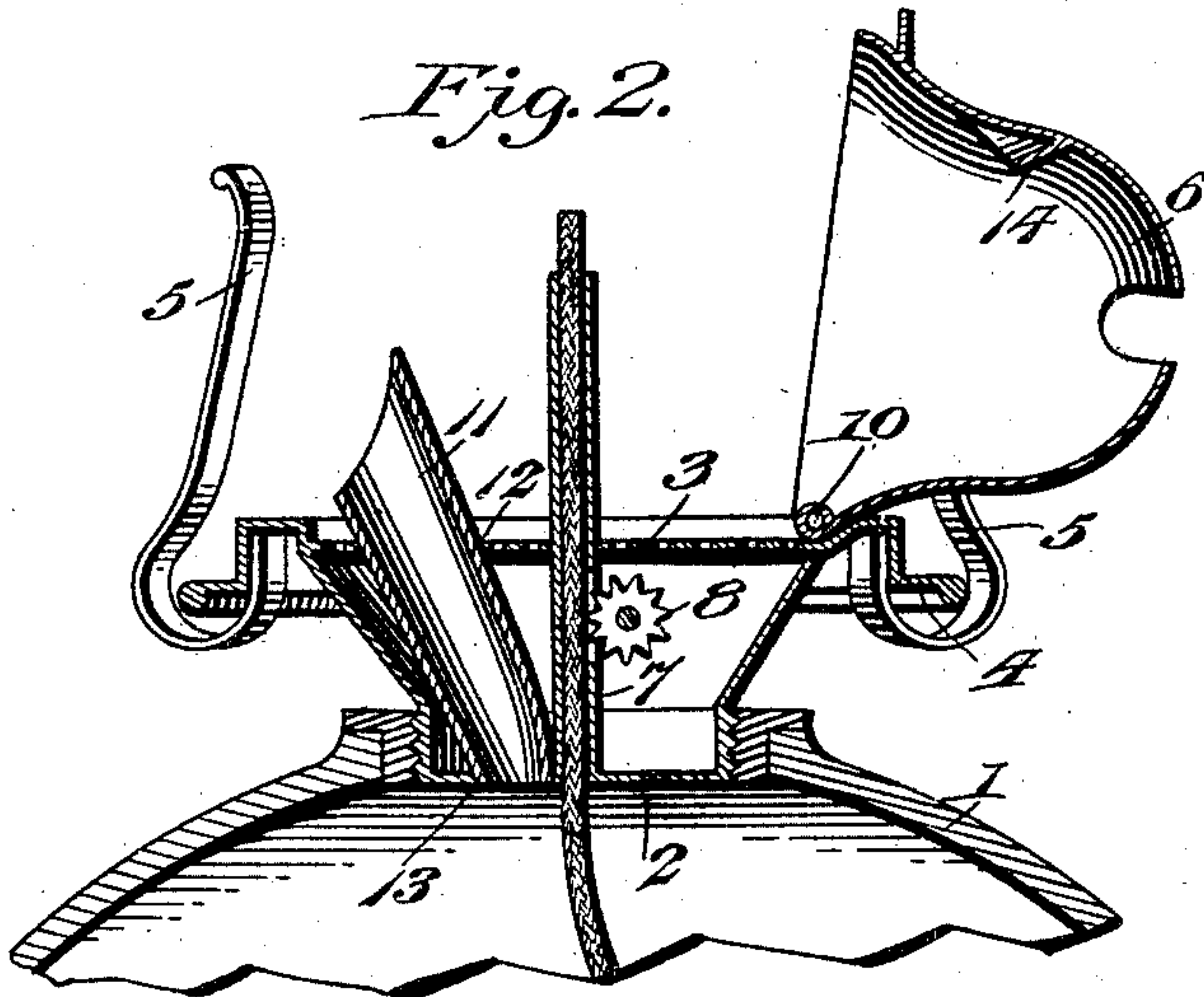


Fig. 2.



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HENRY H. ZIMMERMAN, OF HARVEL, ILLINOIS.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 704,422, dated July 8, 1902.

Application filed October 29, 1901. Serial No. 80,465. (No model.)

To all whom it may concern:

Be it known that I, HENRY H. ZIMMERMAN, a citizen of the United States, residing at Harvel, in the county of Montgomery and State of Illinois, have invented new and useful Improvements in Lamp-Burners, of which the following is a specification.

This invention relates to lamp-burners, the object in view being to provide means in connection with the burner itself whereby the lamp font or reservoir may be filled without requiring the use of a separate and independent filling aperture and cap in the font itself. The burner itself is equipped with a filling-tube, and the flame-cone, which is hinged to the body of the burner, is so related to the filling-tube that it forms a cap or closure for said filling-tube when in its operative position.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement hereinafter described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a vertical sectional view taken through a burner and the adjacent portion of a font, showing the filling-tube and the relation of the flame-cone thereto when said cone is closed. Fig. 2 is a similar view with the flame-cone thrown open.

Similar numerals of reference designate corresponding parts in both figures.

Referring to the drawings, 1 designates a sufficient portion of a lamp font or reservoir to illustrate the application of the present invention thereto and to the burner. The burner may be of any ordinary construction and is shown to comprise a base or body portion 2, having suitable provision for securing the same in the font, a perforated floor 3, terminating in a gallery or chimney-rest 4, chimney-retaining fingers 5, and a flame-cone 6. The burner also comprises the usual wick-tube 7 and wick-raiser 8, which is shown in engagement with the wick illustrated at 9.

In carrying out the present invention the flame-cone is hinged at one side of the burner, as shown at 10, while at the opposite side of the burner there is arranged a filling-tube 11.

This filling-tube sets at an inclination, as illustrated in the drawings, and passes through an opening 12 in the floor 3 and also through an opening 13 in the bottom or base of the burner. The tube 11 is suitably fastened to the floor or bottom of the burner and is supported in place thereby, while the lower end of the tube is preferably contracted or tapered where it passes through the bottom of the burner.

The upper or receiving end or mouth of the filling-tube is cut on a concave or curve corresponding to the curvature of the inner surface of the flame-cone 6, so that when the latter is closed, as shown in Fig. 1, it acts as a cap or closure for the mouth of said tube, preventing the escape or spilling of the oil. The flame-cone 6 is designed to lie close to or in actual contact with the mouth of the filling-tube and is provided upon its inner side with a curved flange 14, which partially surrounds the upper portion of the mouth of the tube and further assists in preventing the spilling of the oil in case the lamp is partially or wholly overturned.

From the foregoing description it will be seen that the flame-cone constitutes a cap or closure for the filling-tube. The filling-tube does away with the ordinary aperture and cap in the font itself and adds but little to the expense of the burner. When the flame-cone is closed, the filling-tube is entirely concealed and there is nothing to indicate its presence. When the flame-cone is thrown open for the purpose of trimming the wick, the mouth of the filling-tube is simultaneously exposed for the reception of oil.

Having thus described my invention, what I claim as new is—

A lamp-burner embodying a base or body having thereon a perforated floor 3 and a cone 6, the cone being closely hinged to the floor 3 at one point and having an inward concave bend below its upper convex contour and also having on the inner side at a point opposite the hinged connection a downwardly and inwardly inclined curved flange 14 at an elevation above the lower edge of the cone, and a filling-tube passing through and supported by

the floor and correlative parts of the burner, said tube diverging toward the upper end and inclined upwardly and outwardly and the upper end cut away to form a concave seat corresponding in curvature to that of the lower portion of the cone so that the inner convex part of the latter will snugly fit against the upper end of the tube and close the same,

the said flange bearing against the upper portion of the tube when the cone is closed. 10

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

HENRY H. ZIMMERMAN.

Witnesses:

F. J. ZIMMERMAN,

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