

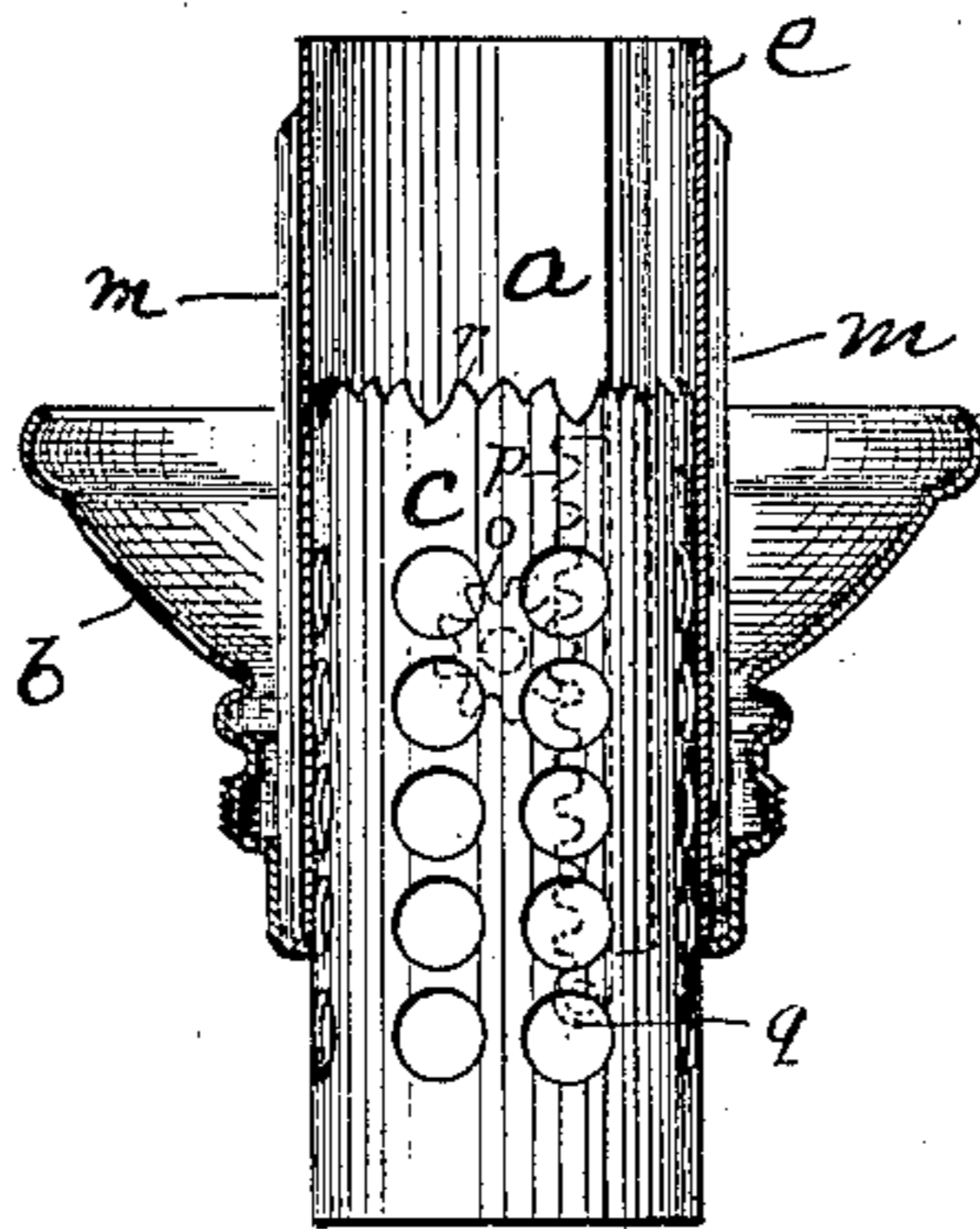
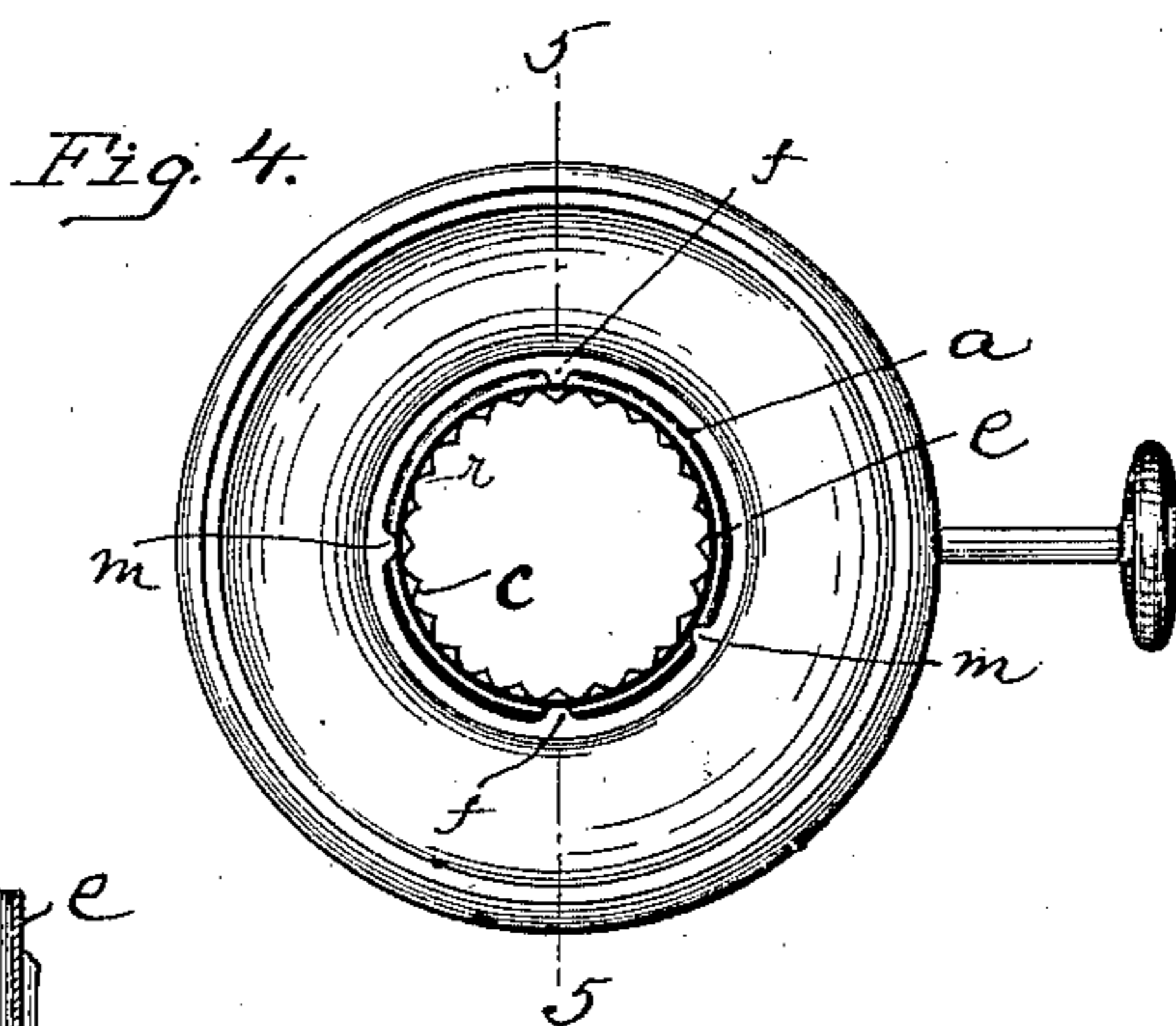
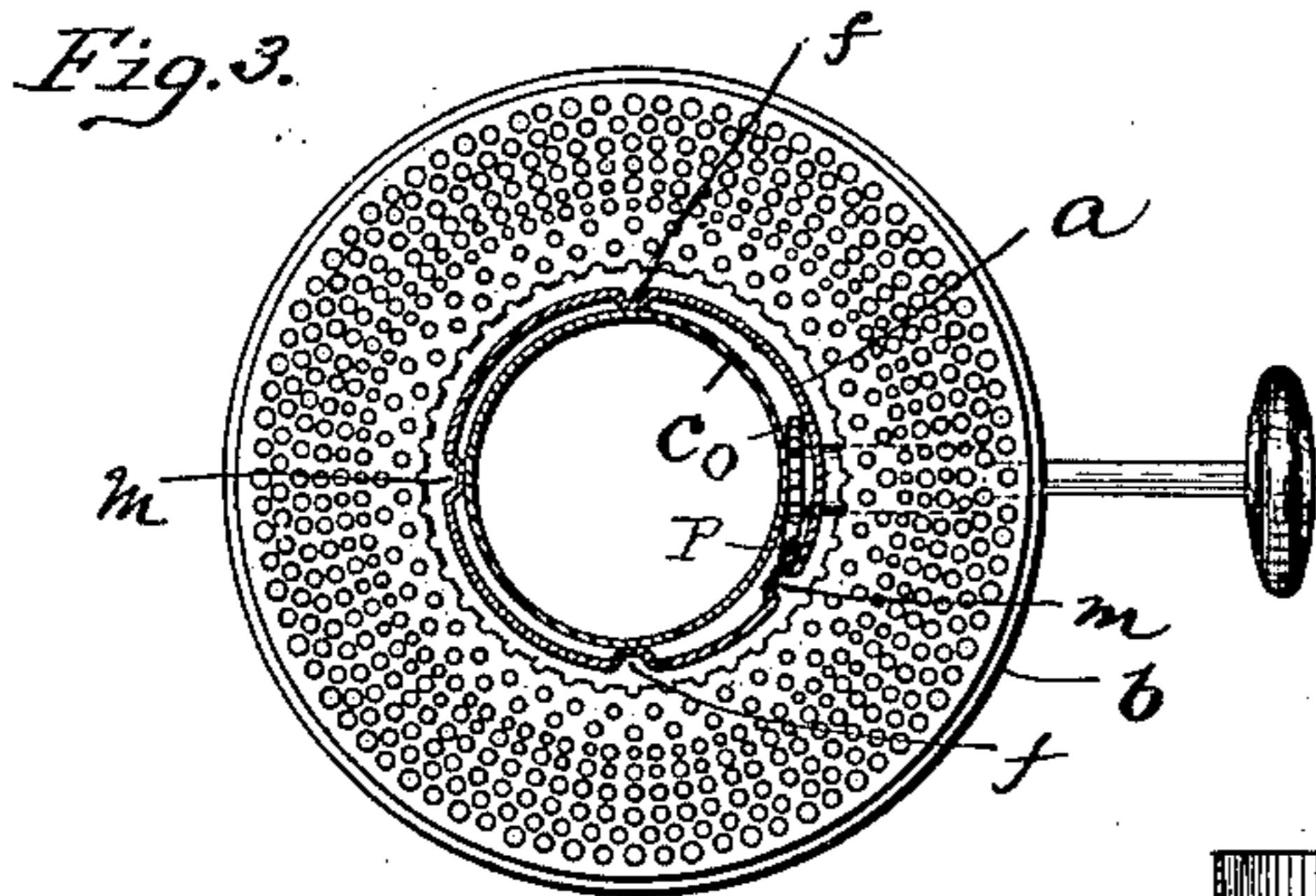
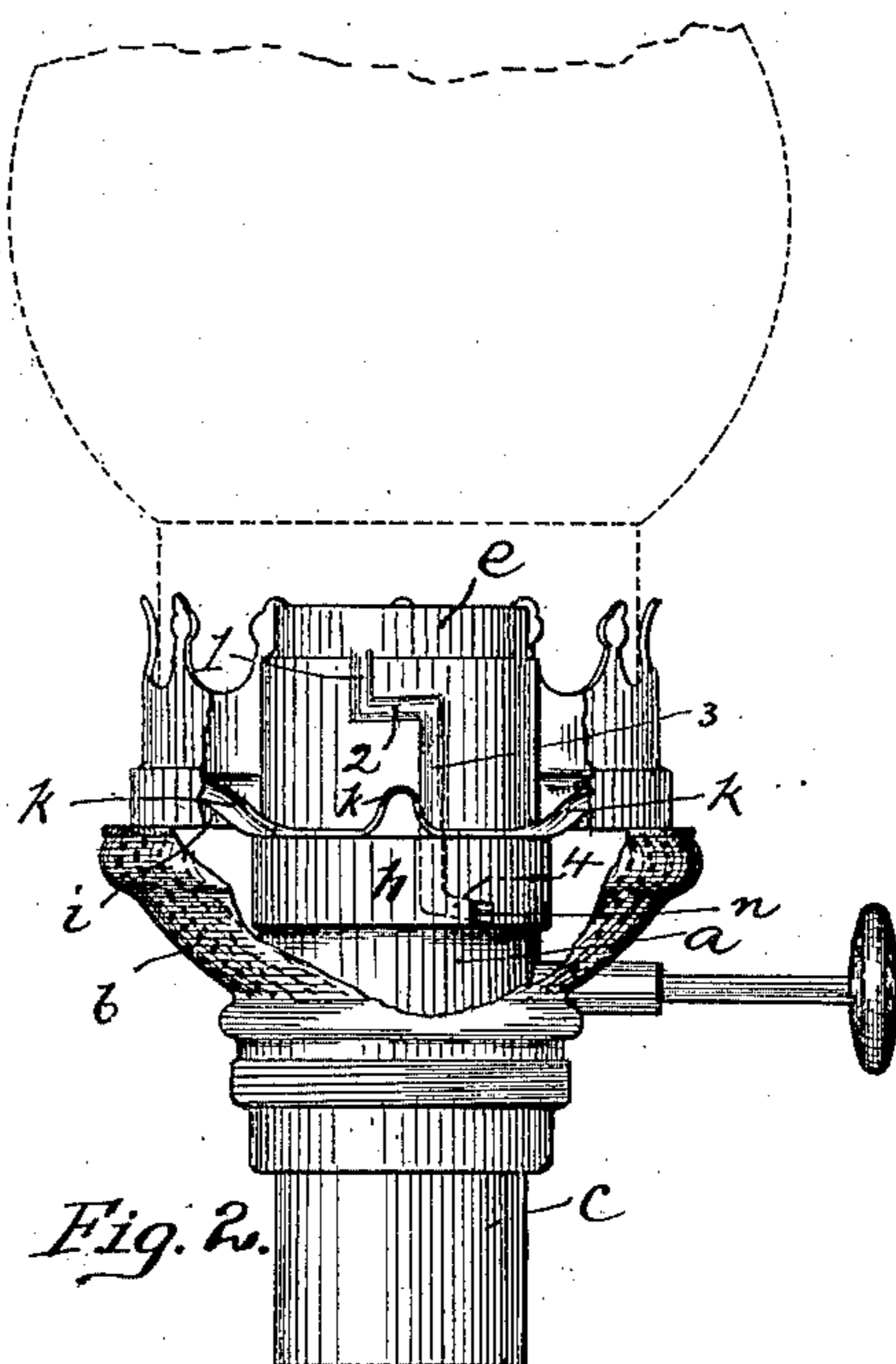
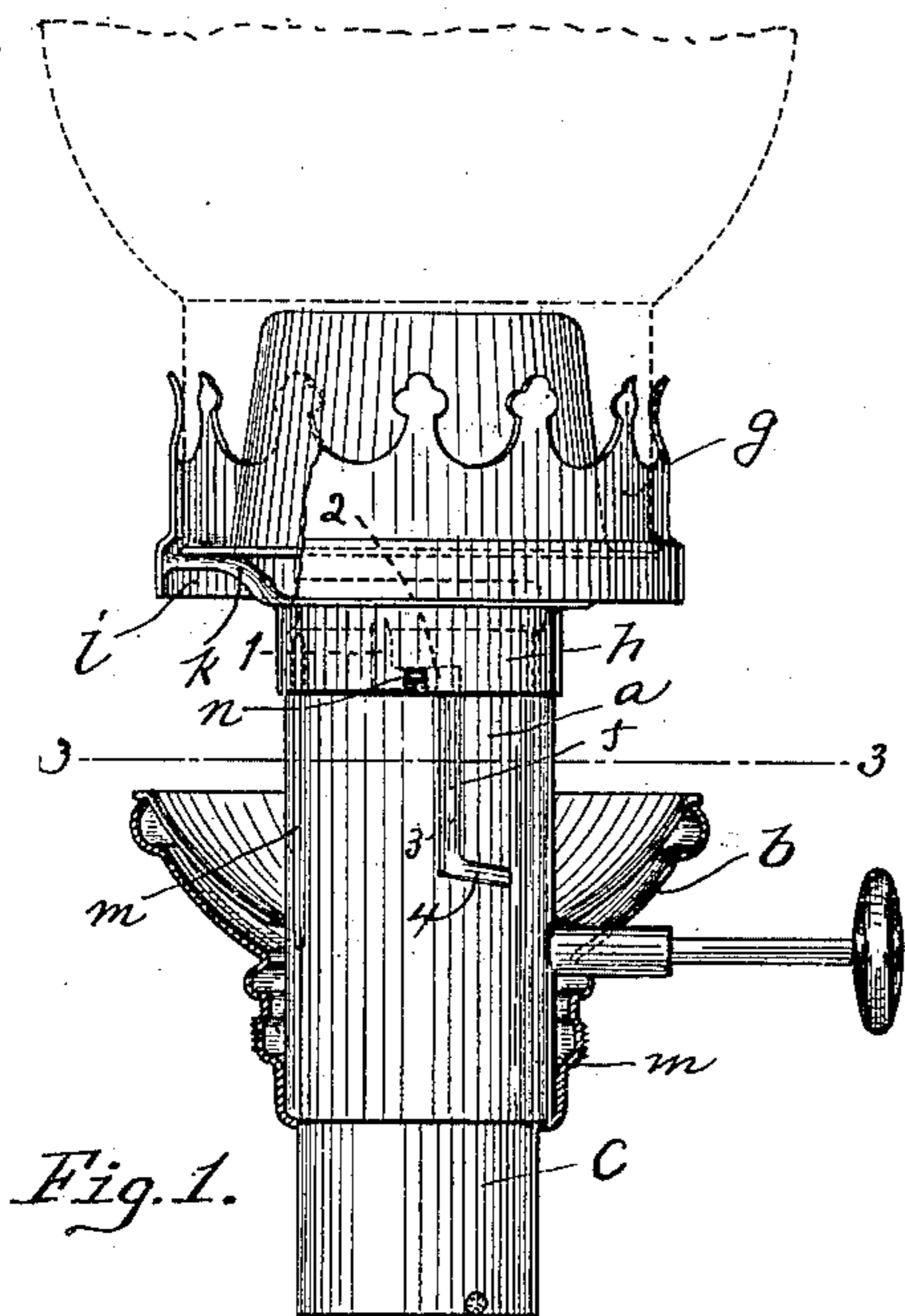
No. 656,891.

Patented Aug. 28, 1900.

W. M. HOERLE.
CHIMNEY RAISING DEVICE.

(Application filed June 30, 1899.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM M. HOERLE, OF ALLEGHENY, PENNSYLVANIA, ASSIGNOR TO THE
PITTSBURGH LAMP AND BRASS COMPANY, OF PITTSBURG, PENNSYLVANIA.

CHIMNEY-RAISING DEVICE.

SPECIFICATION forming part of Letters Patent No. 656,891, dated August 28, 1900.

Application filed June 30, 1899. Serial No. 722,361. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. HOERLE, a resident of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Chimney-Raising Devices; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to chimney-raisers for lamps, its object being to provide a simple form of chimney-raiser which can be formed in connection with the outer wick-tube and which provides guiding means for the wick-sleeve of the wick-raiser, so performing the double function of providing means for locking the chimney-gallery in its raised position for lighting the lamp or in its lower or normal position when the light is burning and at the same time guiding the wick-sleeve in its movement within the outer wick-tube.

To this end it comprises, generally stated, an outer wick-tube having a double-bayonet depression projecting inward, the inner face of which acts or aids in centering the wick-sleeve, and a chimney-gallery carrying a sleeve provided with an inwardly-projecting lug to engage with the double-bayonet depression on the outer face of the wick-tube and provide for holding the chimney-gallery in either raised or lowered position, the upper end of the wick-tube being of smaller diameter than the body containing such double-bayonet depression and being cylindrical, so as to provide for the proper exposure of the wick.

To enable others skilled in the art to make and use my invention, I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a side view, partly broken away, showing the chimney-gallery in raised position. Fig. 2 is a like view showing the same in lowered position. Fig. 3 is a cross-section on the line 3 3, Fig. 1, showing the means for guiding the wick-sleeve. Fig. 4 is a top view of the burner, the chimney-gallery being removed; and Fig. 5 is a section on line 5 5, Fig. 4.

Like characters indicate like parts in each of the figures.

The invention may be employed with a lamp

of any suitable construction having a central tube and employing an outer wick-tube *a*, and the burner has the usual body provided with the perforated base *b* and may have any suitable form of wick-raising device, the wick-raising device shown having a wick-sleeve *c*, which is raised and lowered by means of the pinion *o* engaging the rack *p*, secured at its lower end to the wick-sleeve *c* by means of the pivot *q*, as shown in dotted lines in Fig. 5. The wick-tube *c* travels within the outer wick-tube *a* and is provided at its upper end with teeth *r*, which take into the wick, the latter being held between the wick-sleeve *c* and the central tube of the lamp. (Not shown.) It will be noticed that the upper end *e* of the outer wick-tube is of smaller diameter than the main body thereof and forms a cylindrical lip of even edge and continuous circular form, which is necessary for the proper exposure of the lamp-wick. In the main body of the outer wick-tube below such lip portion *e* are the double-bayonet-joint depressions *f*, each depression having, as shown, the entrance-groove 1, a lateral groove 2 for holding the chimney-gallery in raised position, the vertical groove 3, and the lateral groove 4, which holds the chimney-gallery in its lowered or normal position. The bases of these grooves are about on a line with the outer face of the cylindrical lip *e*, so that the supporting-collar of the chimney-gallery *g* can pass over such outer cylindrical lip to engage with the bayonet-joint. The gallery *g* has thereon the depending collar *h*, of diameter to fit neatly the main body of the outer wick-tube *a*, so that it may slide down over the same. This depending collar *h* is secured to the chimney-gallery *g* by suitable arms *k*, leaving spaces *i* between the chimney-gallery and collar for the passage of the match in the lighting of the lamp when the chimney-gallery is raised. The collar *h* has the depressions or inwardly-extending lugs *n* formed therein to enter the bayonet-grooves on the main body of the outer wick-tube, so providing the engaging member between the chimney-gallery and outer wick-tube. Such lugs in placing the chimney-gallery upon the lamp travel first down grooves 1 until the lugs strike the lateral groove 2,

which forms a support for the chimney-gallery, holding it in its raised position and providing for the passage of the match through the spaces *i* for the lighting of the lamp. By turning the chimney-gallery a short distance to one side the lugs *n* are brought into line with the vertical groove 3, when the chimney-gallery can slide down over the wick-tube *a* until the lugs *n* strike the lateral grooves 4, when by a short turn the chimney-gallery is locked in its lowered position. To raise it for lighting, it is only necessary to carry it in the reverse direction—that is, slide the lugs *n* laterally in the grooves 4, raise the gallery until the lugs come in line with the grooves 2, and turn it slightly, so as to lock it in its raised position, and it may of course be withdrawn from the lamp, the lugs *n* traveling through the grooves 1 when desired.

It will be noticed that the wick-sleeve *c* travels within the outer wick-tube and is of but slightly-smaller diameter than the cylindrical lip at the top thereof. On account of the reduced upper lip of the wick-tube it is necessary to have some guiding means for the wick-sleeve, and the bayonet-joint depressions *f* provide guideways for the wick-sleeve in its movement within the wick-tube. These guideways may of course be supplemented by other depressions formed in the body of the wick-tube, such as the vertical depressions *m*, if that is found necessary. One of the depressions *m* forms a guide against which the back of the rack *p* bears to hold the latter in engagement with the pinion *o*.

In this way I provide a very simple form of outer-wick-tube construction having the cylindrical upper lip and the guideways for the wick-sleeve, while the chimney-raising device is formed by the simple means of depressed guideways in the outer wick-tube and

depressed lugs in the collar of the chimney-gallery, both of which can be formed without the addition of any metal to the lamp parts whatever and practically without additional expense to the lamp, as the depressed guideways and lugs are formed by the machinery which produces the ordinary lamp parts. By forming the depressed guideways in the outer wick-tube they are concealed by the burner *b* and no unsightly parts are exposed to view and at the same time practically no additional cost in the production of the lamp is incurred.

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

1. In chimney-raising devices, the combination with an outer wick-tube having depressed bayonet-joint guideways formed in its main body portion, of a wick-sleeve moving within the outer wick-tube, and guided by the bayonet-joint guideways, and a chimney-gallery provided with a collar fitting over the outer wick-tube, and carrying lugs adapted to engage with the said bayonet-joint guideways; substantially as described.

2. The combination of an outer wick-tube having a main body portion and above the same a cylindrical lip of smaller diameter than the main body portion and having depressed bayonet-joint guideways formed in the main body portion, a wick-sleeve moving within the outer wick-tube and guided by the bayonet-joint guideways, and a chimney-gallery adapted to engage with the bayonet-joint guideways.

In testimony whereof I, the said WILLIAM M. HOERLE, have hereunto set my hand.

WILLIAM M. HOERLE.

Witnesses:

G. C. RAYMOND,
ROBERT C. TOTTEN.