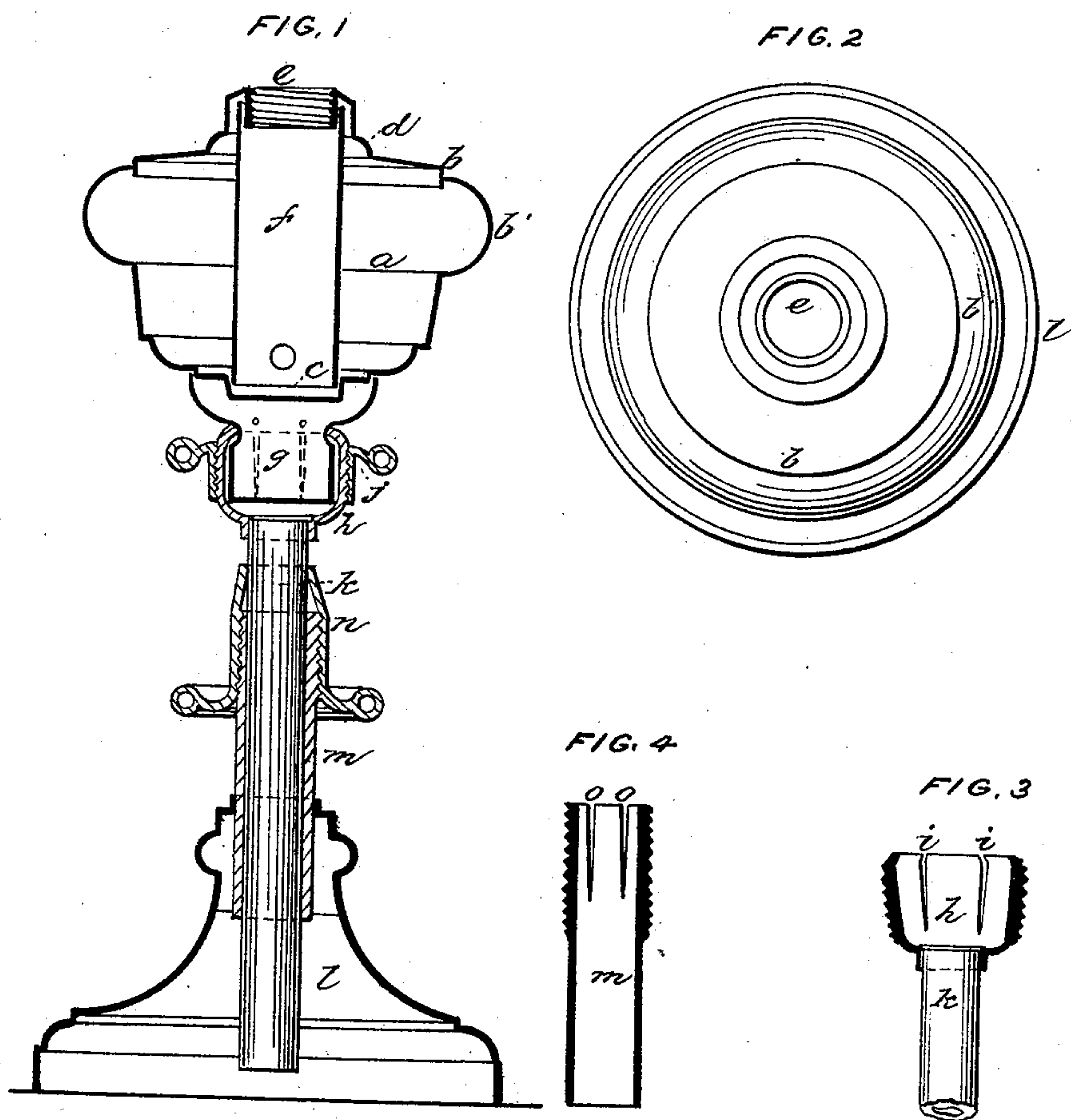


J. B. FULLER.

Lamp.

No. 103,442.

Patented May 24, 1870.



WITNESSES:

E. A. Davis
A. J. Elkins

INVENTOR:

J. B. Fuller.

United States Patent Office.

JIM B. FULLER, OF NORWICH, CONNECTICUT.

Letters Patent No. 103,442, dated May 24, 1870.

IMPROVEMENT IN LAMPS.

The Schedule referred to in these Letters Patent and making part of the same

Be it known that I, JIM B. FULLER, of Norwich, in the county of New London and State of Connecticut, have invented a new and useful Improvement in Metallic Lamps, of which the following is a specification, reference being had to the annexed drawing, in which—

Figure 1 is a vertical section, and

Figure 2 is a plan view of my improvement.

Figures 3 and 4 are detached sections, hereinafter described.

The first part of my invention relates to the peculiar form of the body of the lamp, whereby all soldered joints formed in its construction are located above the upper surface of the oil in the lamp, and whereby said joints are protected from accidental fracture, and whereby the safety-tube is cheaply and securely retained in its proper position.

The second part of my invention relates to the manner of attaching the lamp to the stand or socket, and for holding the adjustable tube or rod at the desired elevation.

In the drawing—

a represents the body of the lamp. It is made in one piece up to the joint *b*.

The "peg" *g* or part which goes into the socket may be attached to the bottom of the body in any convenient manner, except that no connecting-joints should communicate with the interior of said body.

There is a swell or enlargement of the body at *b*, or just below the joint *b*, so made that, should the lamp fall over, the swell would receive the blow in such a manner as to protect the joint from fracture.

c is a recess in the bottom of the body, in which rests the lower end of the safety-tube *f*.

d is the upper portion of the lamp-body, and also forms the collar *e*, into which may be screwed any of the burners in common use.

The interior of said collar, being of usual form, fits loosely into the upper end of the safety-tube *f*, holding it in a vertical position.

The object of the safety-tube *f* is to prevent fire from communicating with any gases which may, by

the use of inferior oils, be held in the body of the lamp. There may be holes made in the lower end of the safety-tube, for the passage of oil into the lamp.

The peg *g* may be of the usual form, so as to fit the stand-sockets in common use.

h is the socket for holding the lamp. It is cut open, and the upper edge turned in, as shown in fig. 3, and a screw-thread is cut upon it to fit the nut *j*.

This nut, when turned up, closes the openings *i i*, and causes the socket to clamp tightly around the peg *g*.

k is a tube or rod attached to the bottom of the socket *h*, and extends down into the stand *l*.

The upper end of this stand is tubular, (see *m*, figs. 1 and 4,) and the tube is cut open at the top, as shown, and a thread is cut upon the outside, to fit the nut *n*.

The upper end of this nut is made slightly conical, so that, when turned down, it contracts the openings *o o*, closing the top of the tube *m*, around the rod or tube *k*, holding it firmly at any desired elevation.

The joint *b* is soldered, and it will be seen that this is the only joint which communicates with the interior of the body of the lamp, and the lamp should never be filled with oil above this joint.

I claim as my invention—

1. A lamp-body, constructed substantially as shown and described, and having a safety-tube, whose lower end rests in the recess *c*, while the upper end fits around the collar *e*, all substantially as and for the purpose specified.

2. The socket *h*, the nut *j* and peg *g*, constructed and arranged substantially as and for the purpose described.

3. A lamp-stand, made adjustable by means of the tube or rod *k*, the tube *m*, and nut *n*, the whole being constructed, arranged, and operated substantially as shown and described, and for the purpose set forth.

Norwich, January 1, 1870.

JIM B. FULLER.

Witnesses:

E. A. DAVIS,
A. S. ELKINS.