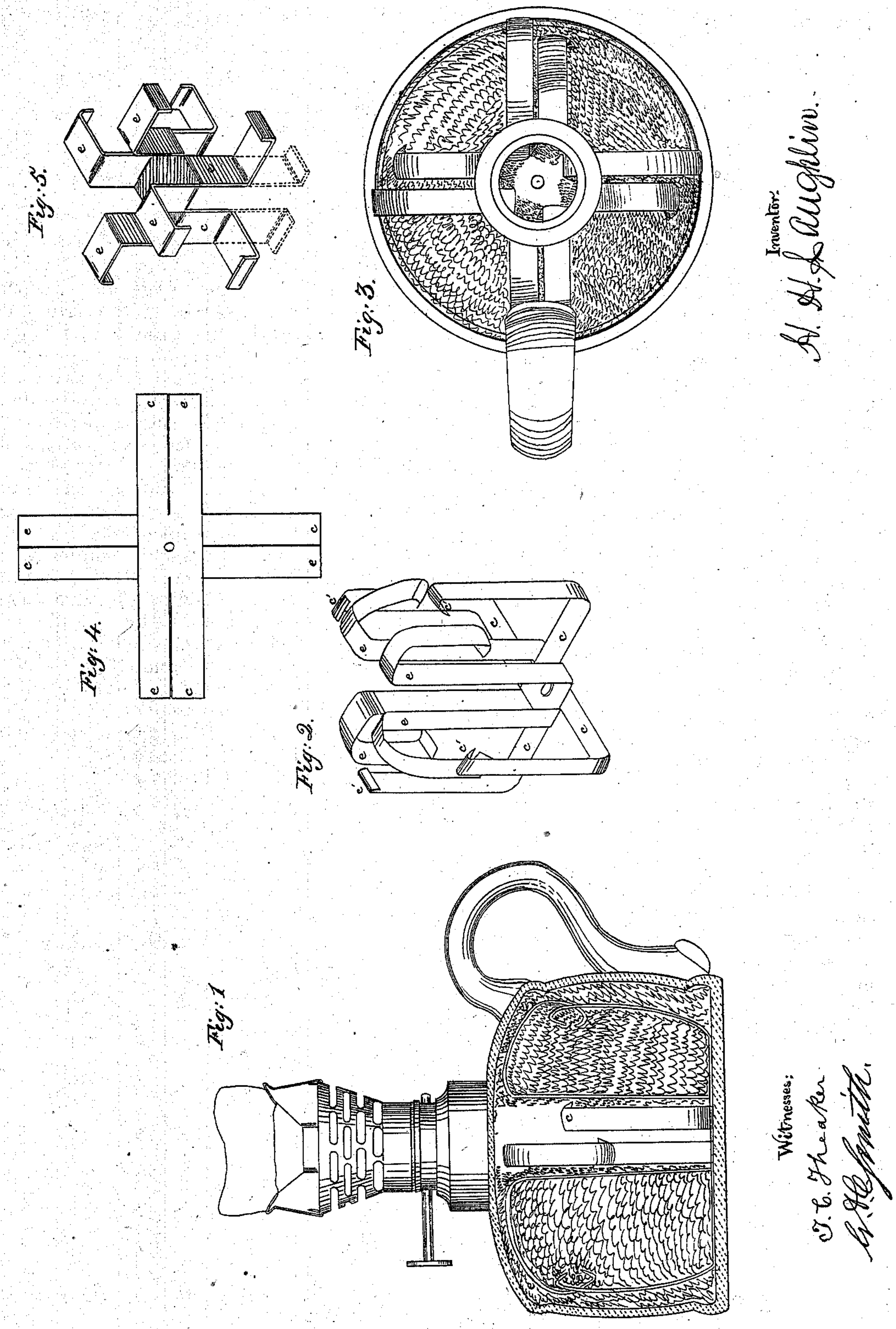
HENRY H. LAUGHLIN.

Improvement in Lamps.

No. 115,329. **Patented May 30, 1871.**



UNITED STATES PATENT OFFICE.

HENRY H. LAUGHLIN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO MARY A. LAUGHLIN, OF SAME PLACE.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. 115,329, dated May 30, 1871.

To all whom it may concern:

Be it known that I, HENRY H. LAUGHLIN, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Lamps; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, in which—

Figure 1 is a vertical section of the lamp; Fig. 2, a perspective of my device; and Fig. 3, a horizontal section of the lamp.

The nature of my invention consists in placing within the lamp strips of metal or wire so formed as that they will hold the cotton which is therein together in case the lamp should be broken, the cotton holding the burning-fluid being saturated therewith, and when the lamp is broken the fluid does not flow out, and thus a conflagration is prevented.

In order to enable others skilled in the art to which it appertains to make and use my invention, I describe it as follows, viz:

I take a sheet of any desired kind of metal —say tin—and of a size to correspond with the size of the lamp to be used, and I cut out of said sheet the strips, as shown in Fig. 4. I then bend the ends of the strip, Fig. 4, *c c c c* up, and *e e e e* down. I then bend the strips at the center end up and down alternately, as seen at Fig. 5, taking care to bend the strips down at their center that have their ends bent up, and up at the center that have their ends bent down, as seen at Fig. 5. I then introduce it into the lamp, the lower end, as represented in Fig. 5, foremost, and when it touches the bottom of the lamp I, by means of a suitable tool, turn the strips *c c* outward along the bottom and up the sides of the lamp, and thus the short turns at the ends of the strips *c c* stand inward, as at *c'*, Figs. 1 and 2, and when in the body of the lamp the points *c'* are near the top of the same. I then bend the strips *e e e e* so as to put them within the body of the lamp, the said bend being shown at *e e e e*, Fig. 2, where the whole device is shown as it is when in the body of the lamp, Fig. 1 showing the same in the lamp. I then fill the lamp with cotton or wool, or other vegetable or animal fiber, so that the strips above described will inclose the same in such a manner as that if the lamp be broken they will retain within their grasp the cotton, holding the same together.

The burning-fluid being put in the lamp, saturating the cotton, when the lamp is broken the metallic strip holds the cotton in shape and the cotton holds the burning-fluid, preventing it from flowing over the floor on which the lamp may be crushed, and thus all danger from fire in the case is avoided.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

The device for holding fibrous material in a lamp, when made of a single piece of metal cut and bent in the form and manner herein shown and described.

H. H. LAUGHLIN.

Witnesses:
T. C. THEAKER,
G. A. C. SMITH.