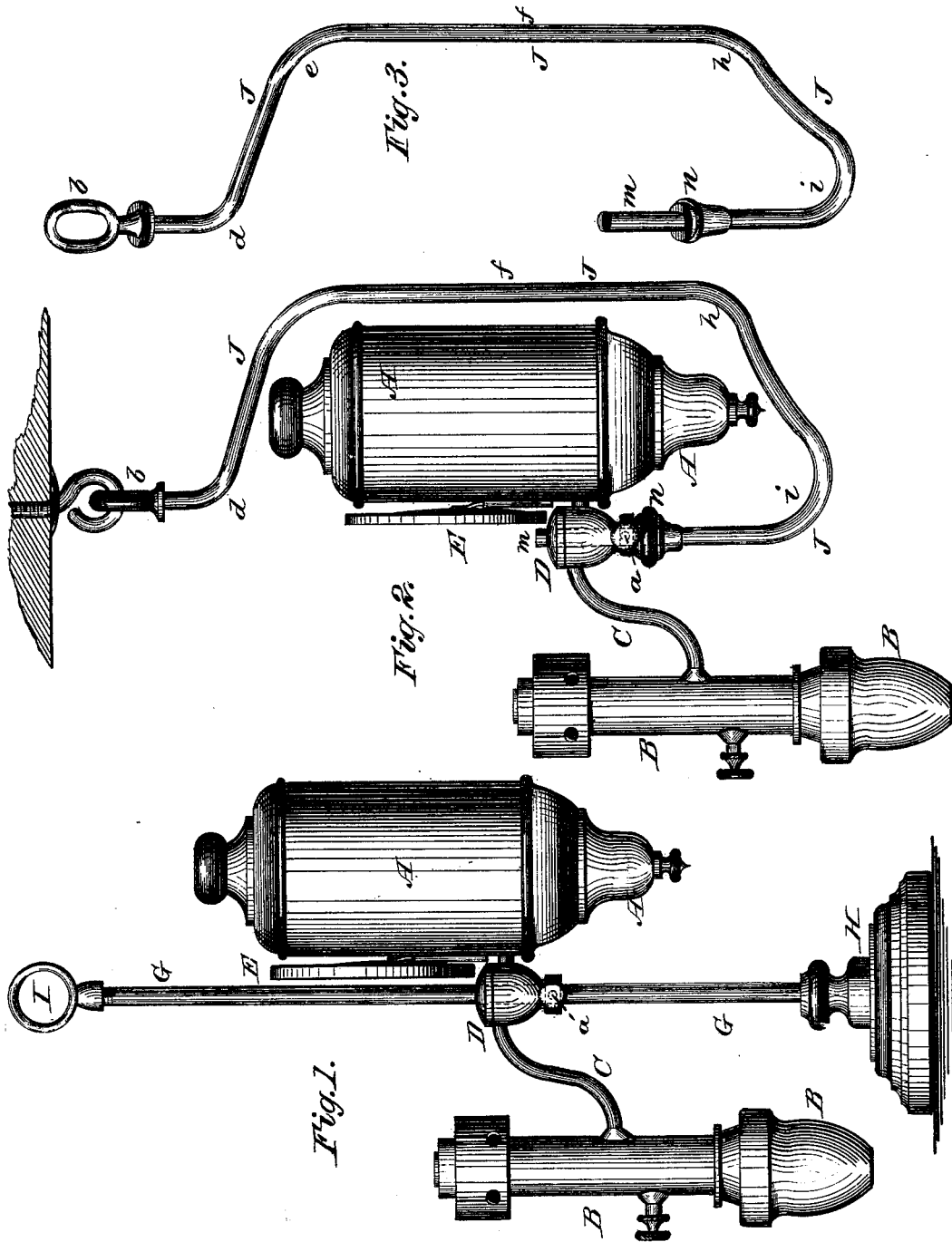


W. M. & J. J. WALTON.
Lamp.

No. 202,681.

Patented April 23, 1878.



Witnesses.

P. C. Diatrich
Frank H. Duffy

Inventors:

William M. Walton
Joseph J. Walton

Per C. H. Watson & Co Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM M. WALTON AND JOSEPH J. WALTON, OF NEW YORK, N. Y.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **202,681**, dated April 23, 1878; application filed April 8, 1878.

To all whom it may concern:

Be it known that we, WILLIAM M. WALTON and JOSEPH J. WALTON, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Lamps; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to the ordinary students' lamps used on board of ships; and it consists in the construction of a "hanger," for suspending the same, when necessary, as will be hereinafter more fully set forth.

In the annexed drawing, Figure 1 is a side elevation of a student's lamp, showing the same on its usual standard. Fig. 2 is a side elevation, showing the student's lamp arranged on the hanger; and Fig. 3 is a separate view of the hanger.

A represents the oil-reservoir, B the wick-tube, and C the connecting feed-tube, of an ordinary student's lamp. E is the reflector, attached to the oil-reservoir A.

In the connecting-tube C, near the reservoir A, is formed the usual hub or collar D, which is placed over the standard or post G, and fastened at any height thereon by a set-screw, *a*. The standard or post G is provided with a foot, H, and a cap-piece, I, which latter is screwed on the upper end of the post, and can be easily attached and detached, as required. These parts are all constructed in any of the known and usual ways for this class of lamps.

On shipboard it is often required to suspend the lamp, and for this purpose we provide what we call a "gimbal," J. This hanger or gimbal is made of a single round metallic rod, bent as shown in Figs. 2 and 3. At the top it is formed with a ring, *b*, from which the rod first extends downward, and is then bent with easy curves at *d* and *e* backward and downward. From the curve *e* a part, *f*, extends vertically downward, and from the lower end

of the straight part *f* the rod is bent forward and downward on easy curves *h* and *i*, and from the latter curve it extends vertically upward, forming at its end a vertical spindle, *m*, at the base of which is a stationary collar, *n*, attached to it in any suitable manner.

The spindle *m* is in a vertical plane forward of the vertical plane of the ring *b* at the upper end of the hanger, as shown in the drawing. When it is desired to suspend the student's lamp, instead of using the post G, the hanger J is suspended by its ring *b* from a hook, and the lamp is removed from the post G by loosening the screw *a* and unscrewing the cap I. The hub or collar D is then placed over the vertical spindle *m*, and may be fastened thereon by the set-screw *a*. When the lamp is thus suspended it may be turned around on the spindle *m*, so as to throw the reflection of the light from the reflector in any direction desired, the peculiar construction of the hanger admitting of the oil-reservoir A passing through within the same.

The spindle *m* is arranged in a different vertical plane from that of the ring *b* at the point of suspension, for the reason that, the reservoir being generally heavier than the burner and attachment, it allows the burner and reservoir to assume a level or desired position, as shown in Fig. 2.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In combination with a student's lamp, the hanger J, constructed as shown, with the ring *b* at its upper end, then bent substantially as shown, and the lower end forming the vertical spindle *m*, with collar *n*, the said spindle being in a different vertical plane from that of the ring *b*, as and for the purposes herein set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

WILLIAM M. WALTON.
JOSEPH J. WALTON.

Witnesses:

W. E. STILLWELL,
WM. B. UPPERMAN.