(No Model.)

W. S. TRYON.

LANTERN.

No. 308,581. Patented Nov. 25, 1884.

FIG. 1

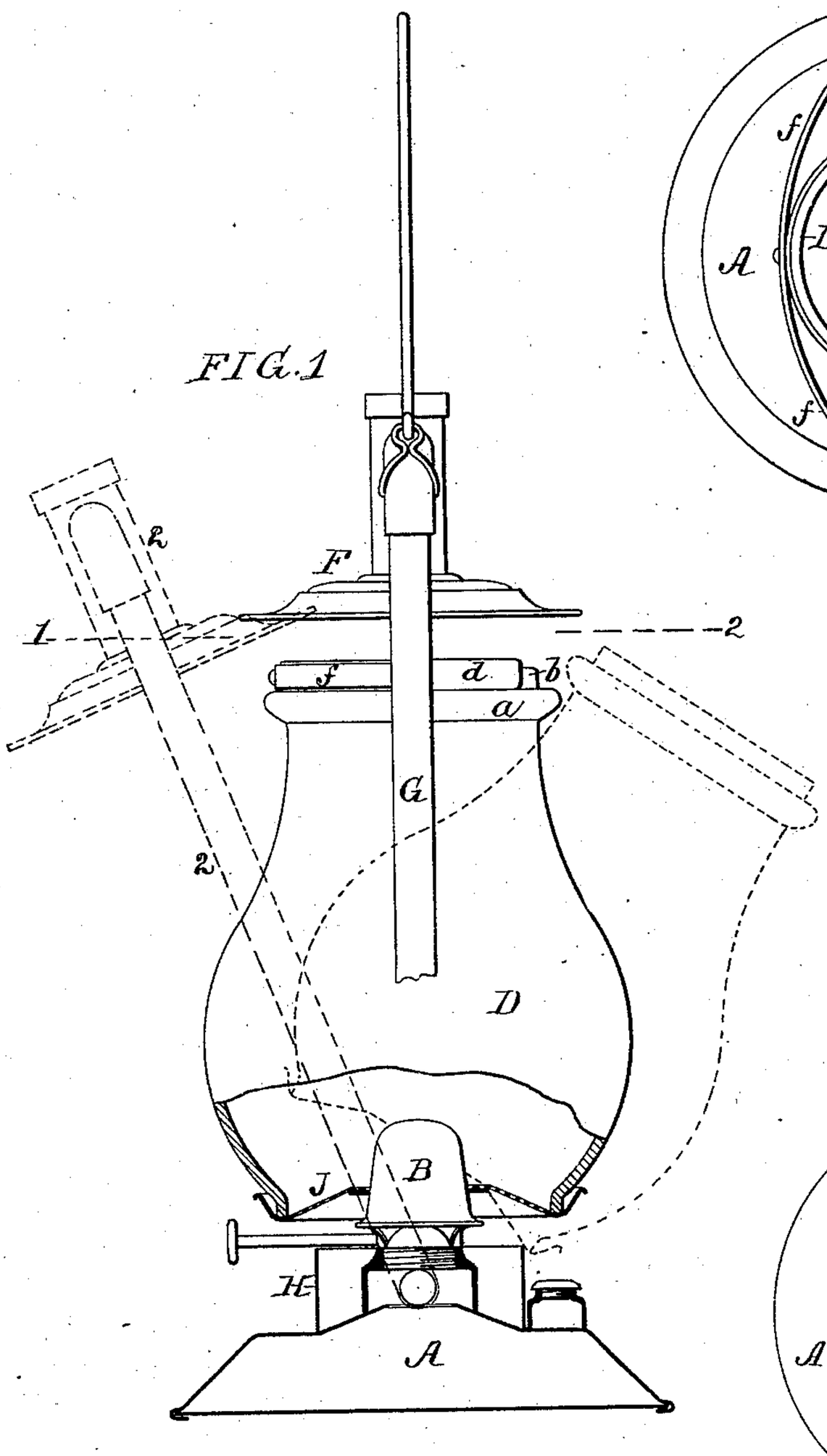


FIG. 2

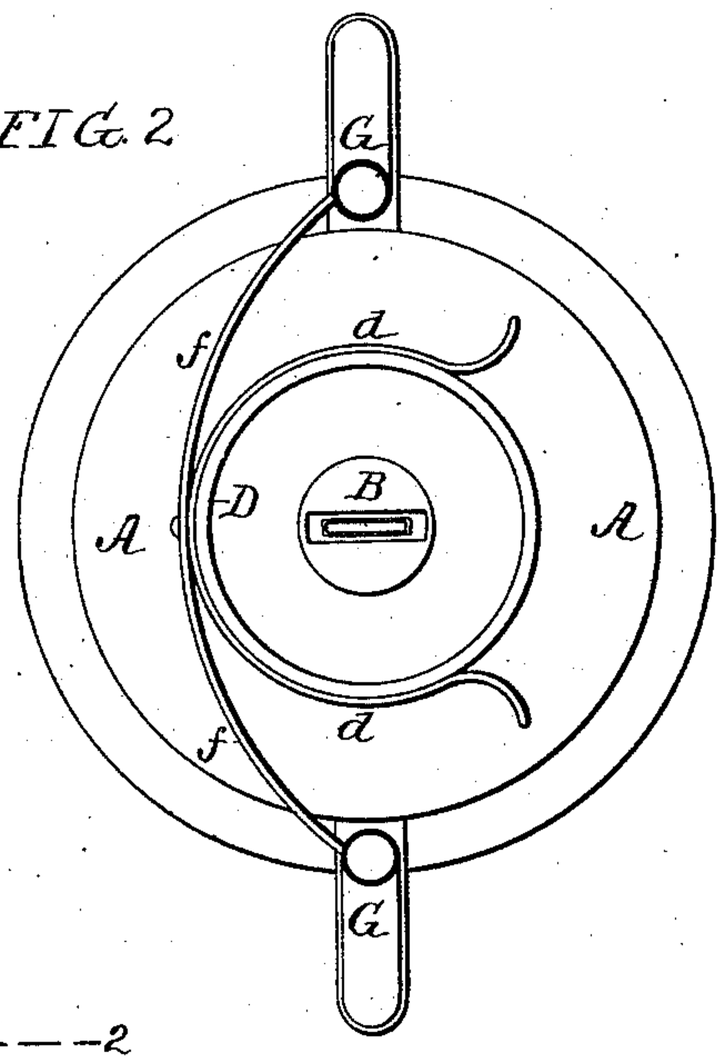
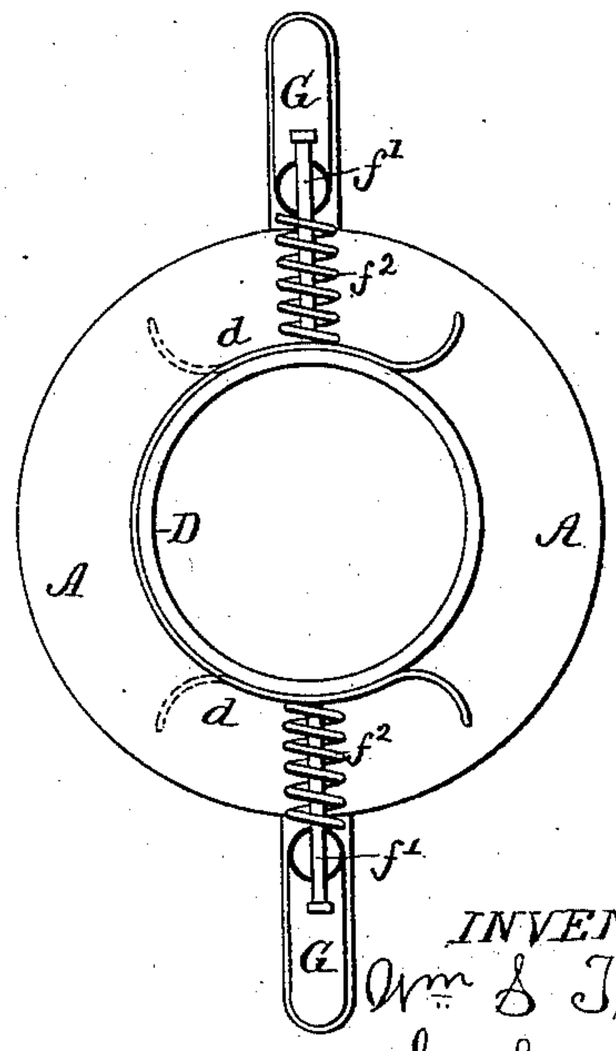


FIG. 3



WITNESSES:
John E. Parker
James F. John

INVENTOR:
Wm S Tryon
by his Attorneys
Howson & Sons,

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM S. TRYON, OF PHILADELPHIA, PENNSYLVANIA.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 308,581, dated November 25, 1884.

Application filed October 25, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. TRYON, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Lanterns, of which the following is a specification.

The object of my invention is to provide a lantern having a tilting globe or a swinging frame with means whereby said globe may be securely retained in position when such retention is desired, and yet readily removed or applied when necessary. This object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawings, in which—

Figure 1 is a side view, partly in section, of a lantern with my improved retainer; Fig. 2, a sectional plan on the line 1 2, and Fig. 3 a view of a modification.

In Fig. 1, A represents the fountain or reservoir of the lantern; B, the burner; D, the globe; F, the dome above the same, and G G the opposite side bars which support the dome, and are connected at the lower ends to the ring H on the reservoir. The globe D is supported upon a perforated disk, J, resting on the burner, and the upper end of the globe has the usual shoulder, *a*, and above the same a neck, *b*, which is retained by a clamp, *d*, consisting of a strip of elastic sheet metal bent so as to embrace rather more than half the circumference of the neck, and having its ends bent outward, so as to form a flaring entrance or mouth to the clamp, as shown in Fig. 2. This elastic clamp is secured to a bar, *f*, which extends transversely from one of the side bars, G, to the other, and is secured to said bars at its ends. By this means the globe is firmly held when in use, but can be readily removed from the clamp by tilting said globe laterally from the position shown by full lines to that shown by dotted lines in Fig. 1, the application of the globe to the retainer being effected by a reverse movement, so that neither operation demands the manipulation of the retainer.

In order to facilitate the tilting of the globe, the disk J rests loosely on the burner, so that it is free to tilt with the globe, as shown.

The frame may be hung to the reservoir so as to be swung to one side, as shown by the dotted lines 2 in Fig. 1, in order to free the globe from the control of the retainer; but the fixed frame is preferred.

Instead of supporting the elastic clamp *d* by means of a single bar, *f*, the clamp may be carried by opposite rods, *f'*, passing through openings in the side bars, G, and free to slide therein, the elasticity of the clamp being re-enforced, if desired, by side springs, f^2, and in place of a single clamp the clamp may be made in halves, as shown by dotted lines, so that the globe can be inserted or removed either from the front or back.

I do not claim, broadly, a lantern having a retainer into and from which the upper portion of the globe is moved laterally, as such retainers have been heretofore proposed, but have been so constructed that the operation of some portion of the retainer by hand was necessary before the globe could be applied to or removed therefrom, whereas my improved laterally-yielding retainer, with its flaring mouth, permits the insertion or removal of the globe without any manipulation whatever of the retainer.

I claim as my invention—

1. The combination of a lantern-reservoir, the outer frame, and the globe having a support at the bottom, with the elastic retainer *d*, carried by the side bars of the frame, and constructed as described, whereby it presents a flaring mouth for the entrance of the upper portion of the globe, and is free to yield laterally to permit the insertion and removal of the said globe, as set forth.

2. The combination of the lantern-reservoir, the outer frame, and the globe having a support at the bottom, with the elastic clamp *d*, open at the front to permit the insertion and removal of the globe, and carried by a bar, *f*, secured to the side bars, G, of the frame, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. S. TRYON.

Witnesses:
JOHN E. PARKER,
HARRY SMITH.