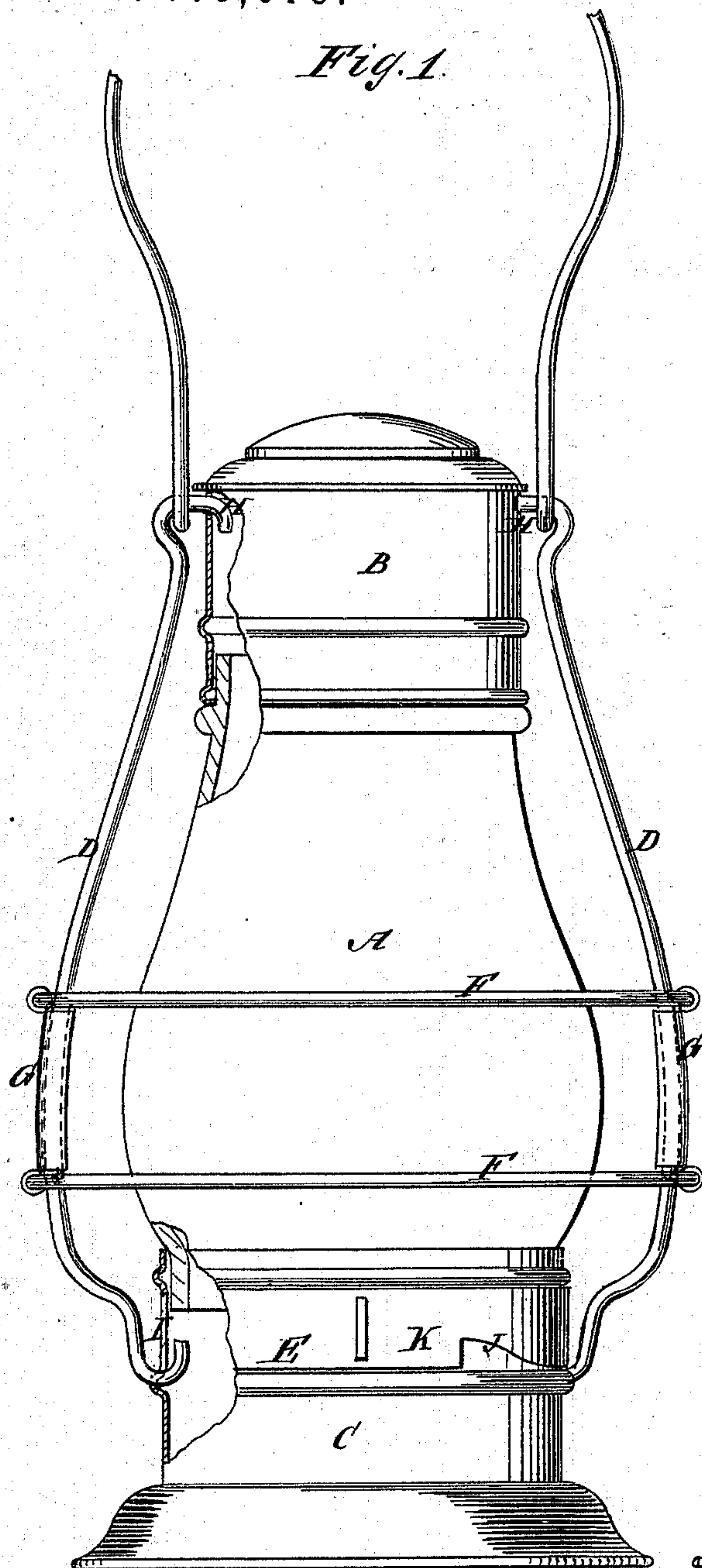


J. KINTZ.  
Lanterns.

No. 146,079.

Patented Dec. 30, 1873.

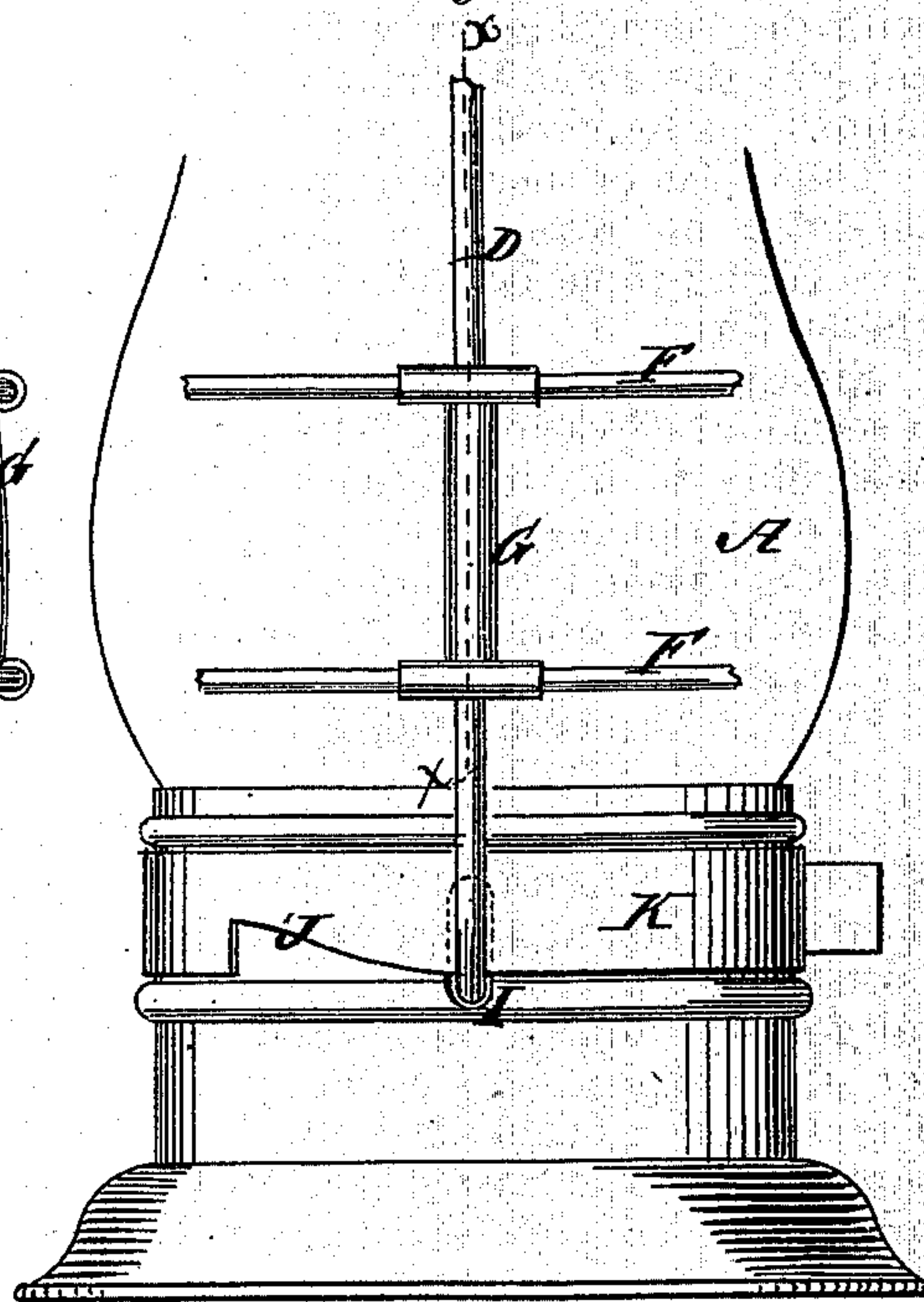
*Fig. 1.*



*Fig. 3.*



*Fig. 2.*



WITNESSES:

*E. Hoff*  
*Crugnier*

INVENTOR:

BY

*J. Kintz*  
*Wm. L.*  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

JOSEPH KINTZ, OF WEST MERIDEN, CONNECTICUT, ASSIGNOR TO HIMSELF  
AND P. J. CLARK, OF SAME PLACE.

## IMPROVEMENT IN LANTERNS.

Specification forming part of Letters Patent No. 146,079, dated December 30, 1873; application filed  
November 1, 1873.

*To all whom it may concern:*

Be it known that I, JOSEPH KINTZ, of West Meriden, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Lanterns, of which the following is a specification:

My invention relates to a movable connection between the two sets of guard-wires, and to the combination of a notched movable ring with the vertical guard-wires to prevent vertical play thereof in the slots in the base of the lantern, as hereinafter described.

The object of the construction is to facilitate insertion and removal of globes and clamping or securing them between the base and top of the lantern.

Figure 1 is partly a side elevation and partly a sectional elevation of a lantern constructed according to my invention. Fig. 2 is also a side elevation of the said improved lantern, but it is taken in a plane at right angles to that of Fig. 1, and Fig. 3 is a section of Fig. 2 on the line *x x*.

Similar letters of reference indicate corresponding parts.

A is the globe; B, the top; C, the bottom; D, the vertical guards; E, the ring around the bottom for fastening the top and globe to the bottom of the vertical guard; F, the horizontal guards; and G, the bent or grooved plates for attaching them to the vertical guards. The vertical guards are hooked into the top B through holes in the sides, as at H, so that the top can swing sidewise. They are also hooked into the bottom, so they can swing on it, and the holes I in which they are hooked are slotted, so that they can move up and down in them to some extent. The guards are so ad-

justed as to length that when down to the lower ends of the slots, or thereabout, the globe will rest on its seat and the top will rest on the globe, and when they are raised up in the slots as high as they will go the top will swing off or on the globe. They are to be pressed down by inclines J, formed by notching the ring or band K which is fitted around the bottom or base of the lantern, and adapted to be reciprocated to fasten or unfasten the globe by acting upon the guard-wires D. As the guards and the top must, of course, be capable of swinging off and on the top of the globe, the horizontal guards F cannot be rigidly attached to them; consequently I connect them to bent or grooved pieces G, and arrange them so they will slip down on the vertical guards and hold fast at the bulge, or a little above, so as to hold the horizontal guards in place, and, at the same time, stiffen the bottom, globe, and top against lateral motion.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

1. In combination with the base C, provided with vertical slots I, the removable top B, and globe A, the vertical guard-wires D, horizontal guards F, and grooved plates G, to operate as shown and described.

2. The movable band or ring K, having inclines, in combination with the guard-wires D, base C, and top B of the lantern, as and for the purpose specified.

JOSEPH KINTZ.

Witnesses:

C. P. IVES,

ORVILLE H. PLATT.