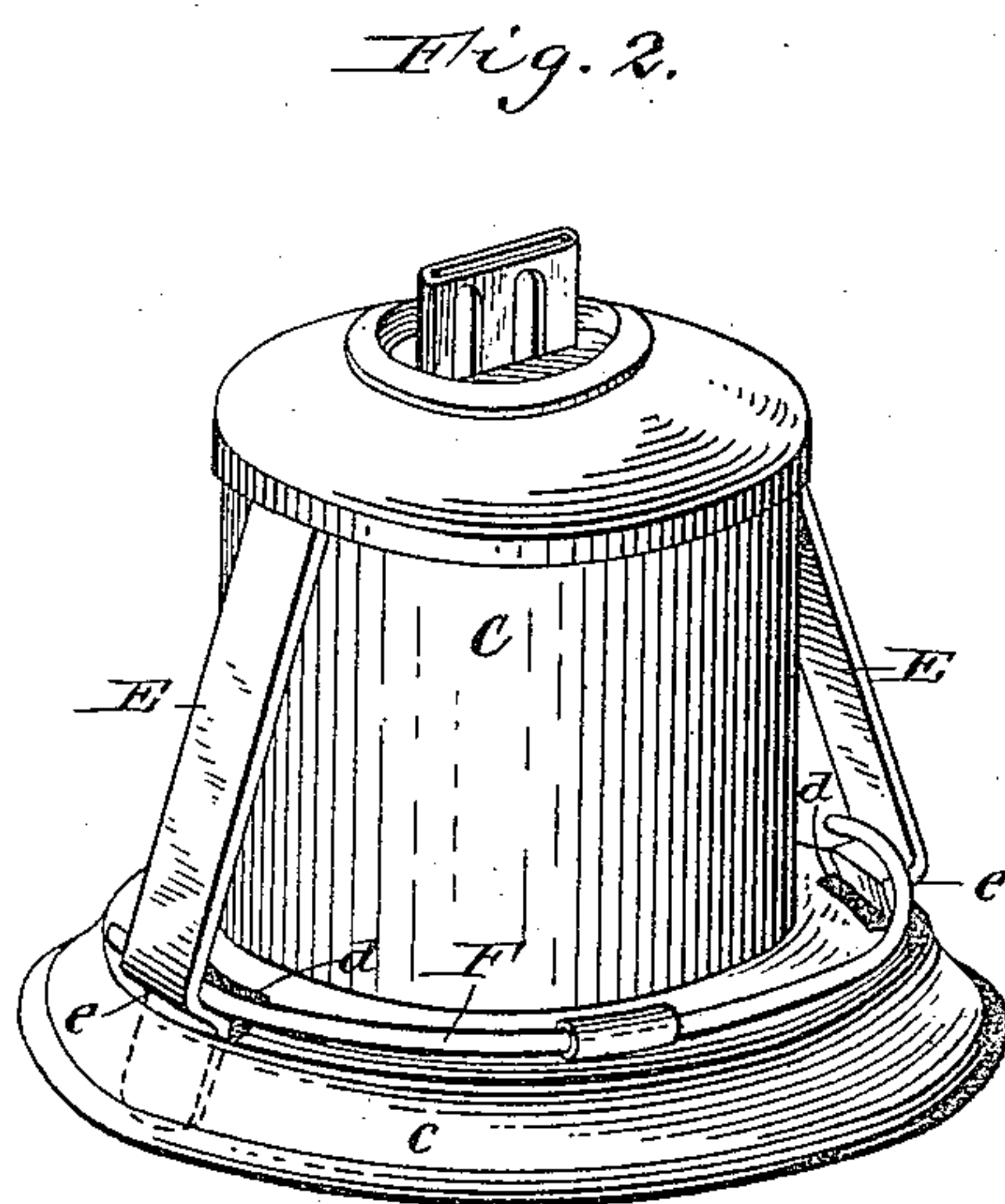
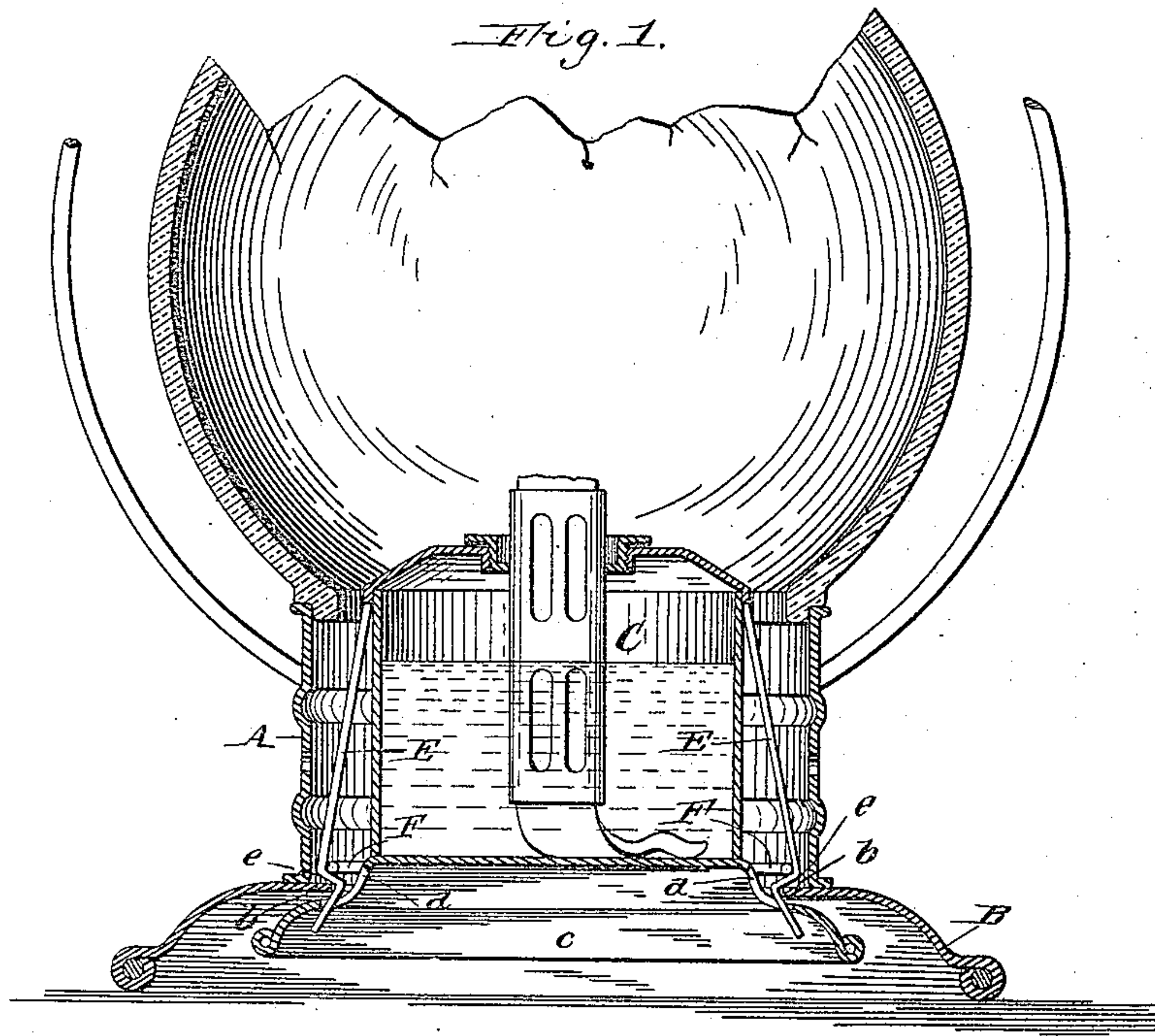


(No Model.)

F. DIETZ.  
LANTERN.

No. 441,358.

Patented Nov. 25, 1890.



Witnesses:  
Jacob Nyssenblatt  
Theo. L. Opp.

Frederick Dietz, Inventor.  
By Edward Wilhelm,  
Attorney.

# UNITED STATES PATENT OFFICE.

FREDERICK DIETZ, OF NEW YORK, N. Y., ASSIGNOR TO THE R. E. DIETZ  
COMPANY, OF SAME PLACE.

## LANTERN.

SPECIFICATION forming part of Letters Patent No. 441,358, dated November 25, 1890.

Application filed March 22, 1890. Serial No. 344,974. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK DIETZ, a citizen of the United States, residing at New York, in the county and State of New York, have invented a new and useful Improvement in Lanterns, of which the following is a specification.

This invention relates to that class of lanterns which are provided with a removable oil-pot having on opposite sides downwardly-diverging spring-catches, by which the oil-pot is removably secured in the lower cylindrical collar of the lantern-frame, into which the oil-pot is inserted from below. These springs are not usually of sufficient holding power to securely lock the oil-pot in place, and they are sometimes re-enforced by similar auxiliary springs arranged on the inner side of each of the main locking-springs and diverging downwardly in a similar manner. These auxiliary springs are, however, comparatively short, and are consequently liable to be broken, and render the locking-springs comparatively stiff and unyielding.

The object of my invention is to provide the main locking-springs with auxiliary springs, which materially increase the holding power of the locking-springs and at the same time are so yielding as to be durable and permit of the easy manipulation of the locking-springs in inserting and removing the oil-pot.

In the accompanying drawings, Figure 1 is a sectional elevation of the lower part of a lantern provided with my improvement. Fig. 2 is a perspective view of the oil-pot detached.

Like letters of reference refer to like parts in the several figures.

A represents the lower cylindrical band or collar of the lantern-frame, and B the base-flange thereof, provided with an annular rim *b*, which projects inwardly beyond the collar A, and is provided with a central opening, through which the oil-pot C is inserted and removed in the usual manner. The oil-pot is

provided with the usual outwardly-projecting base-flange *c*, having openings *d* on diametrically-opposite sides.

E represents the usual locking-springs, secured with their upper ends to the upper portion of the oil-pot on diametrically-opposite sides thereof and diverging downwardly, their lower portions being provided with shoulders *e* by which they engage the upper side of the rim *b* for securing the oil-pot in the lantern. The lower ends of the locking-springs project through the openings *d* in the base-flange of the oil-pot.

F represents an auxiliary bow-spring secured at its middle to the lower portion of the oil-pot above the base-flange thereof, and extending horizontally about half-way around the oil-pot, and bearing with its free ends against the inner sides of the locking-springs E, so as to resist the inward movement of said springs. The arms of said bow-spring being arranged horizontally are of sufficient length to render the same easily yielding and prevent it from being broken and still re-enforce the locking-springs to such an extent that the oil-pot is securely locked in the lantern-frame.

It is obvious that two separate horizontal auxiliary springs might be substituted for the single bow-spring; but I prefer a single bow-spring, because it is simpler in construction and more readily secured to the oil-pot.

I claim as my invention—

The combination, with the oil-pot and the locking-springs secured thereto, of an auxiliary bow-spring secured at its middle to the oil-pot and engaging with its free ends against the locking-springs, substantially as set forth.

Witness my hand this 17th day of March, 1890.

FREDERICK DIETZ.

Witnesses:

JOHN H. KUHLE,  
FRED VAN DUYN.