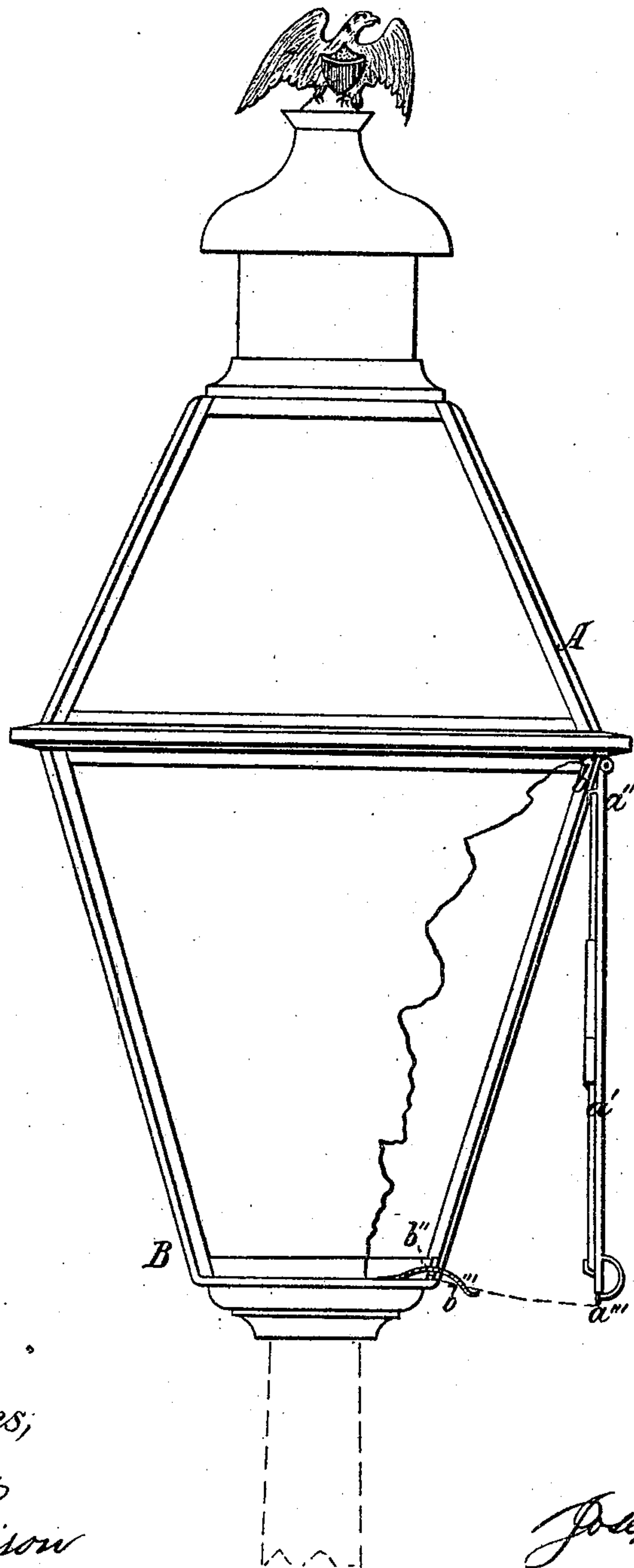


J. NEUMANN.  
Street Lamp.

No. 102,305.

Patented April 26, 1870.



Witnesses,  
H. Voigt  
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# United States Patent Office.

JOSEPH NEUMANN, OF PHILADELPHIA, PENNSYLVANIA.

*Letters Patent No. 102,305, dated April 26, 1870.*

## IMPROVEMENT IN STREET-LANTERNS.

The Schedule referred to in these Letters Patent and making part of the same

I, JOSEPH NEUMANN, of the city of Philadelphia, in the State of Pennsylvania, have invented certain Improvements in Street-Lanterns, of which the following is a specification.

### *Nature and Objects of the Invention.*

My invention relates to the hanging of the door of a street-lantern by articulating its upper end to the frame, in such a manner as to afford it a pendulous motion in opening and closing the lantern, in combination with a spring catch for holding and releasing the lower end of the door; the object of my invention being to avoid the frequent breakage of the contained glass to which doors hung by one of their sides, as heretofore, are subject, and to facilitate the operation of opening and closing the door, in cleaning and lighting the lantern; and, also, to cause the door to close and fasten itself by the aid of the wind, when the said door is accidentally or carelessly left unfastened.

### *Description of the Accompanying Drawing.*

The drawing represents a side elevation of a street-lantern of the usual form, partly in vertical central section, showing my invention applied.

### *General Description.*

A B is the frame or body of the lantern.

$a'$ , the door of the same, hinged or articulated by its upper end  $a''$  to the frame at  $b'$ , so that it can swing freely in a pendulous manner.

In the middle of the lower end of the said door  $a'$  a small stud,  $a'''$ , is fixed, and projects downward below the edge of the door, say about three-eighths of an inch, more or less.

The upright edge piece of the lower part of the frame A B, has a square or rectangular notch,  $b''$ , cut out to give room for a free up-and-down motion of a spring,  $b'''$ , which consists of a curved strip of springy sheet metal, having its inner end soldered fast to the inner side of the bottom of the frame or body of the lantern, and with its outer end projecting about one and a half

inches, more or less, through the notch  $b''$ , so as to form a spring which will yield downward readily to the pressure of the stud  $a'''$  as the door closes up against the frame of the lantern.

At the point in the said spring at which the said stud  $a'''$  arrives when the door is closed there is a hole made, which allows the spring to rise quickly, and thus securely hold the door in its closed position.

It will be readily understood, without further description or explanation, that, as the sides of the body or frame of the lantern are inclined outward from the bottom upward, the door  $a'$  will quickly gravitate to the vertical position when released from the spring  $b'''$ , as shown in the drawing, and thus afford ample room for the introduction of the operator's hand and arm in lighting the gas or oil; and that a slight push then given to the door will cause it to close and be held securely in that position by the yielding spring rising and thus receiving the stud  $a'''$  in the hole made for it in the spring. A slight pressure of the operator's finger upon the spring  $b'''$  releases the door, and a slight push of the same against the open door will close and fasten it, thus facilitating the operation of lighting, and avoiding at the same time any danger of breaking the glass, a liability to which the side-swinging doors are subject; and, should the door  $a'$  be accidentally or carelessly left open, the first blast of wind will close and secure it safely.

### *Claim.*

I claim as my invention—

The combination of the pendulous door  $a'$ , the stud  $a'''$ , the perforated and curved sheet-metal spring  $b'''$ , and the notch  $b''$ , the said parts being constructed and applied to a street-lantern in the manner and for the purpose hereinbefore set forth.

JOSEPH NEUMANN.

Witnesses:

WM. H. MORISON,  
H. VOIGT.