

W. T. & F. A. IDDINGS.
 GLOBE LIFTING DEVICE FOR LANTERNS.
 APPLICATION FILED OCT. 17, 1910.

982,181.

Patented Jan. 17, 1911.

2 SHEETS-SHEET 1.

Fig. 4.

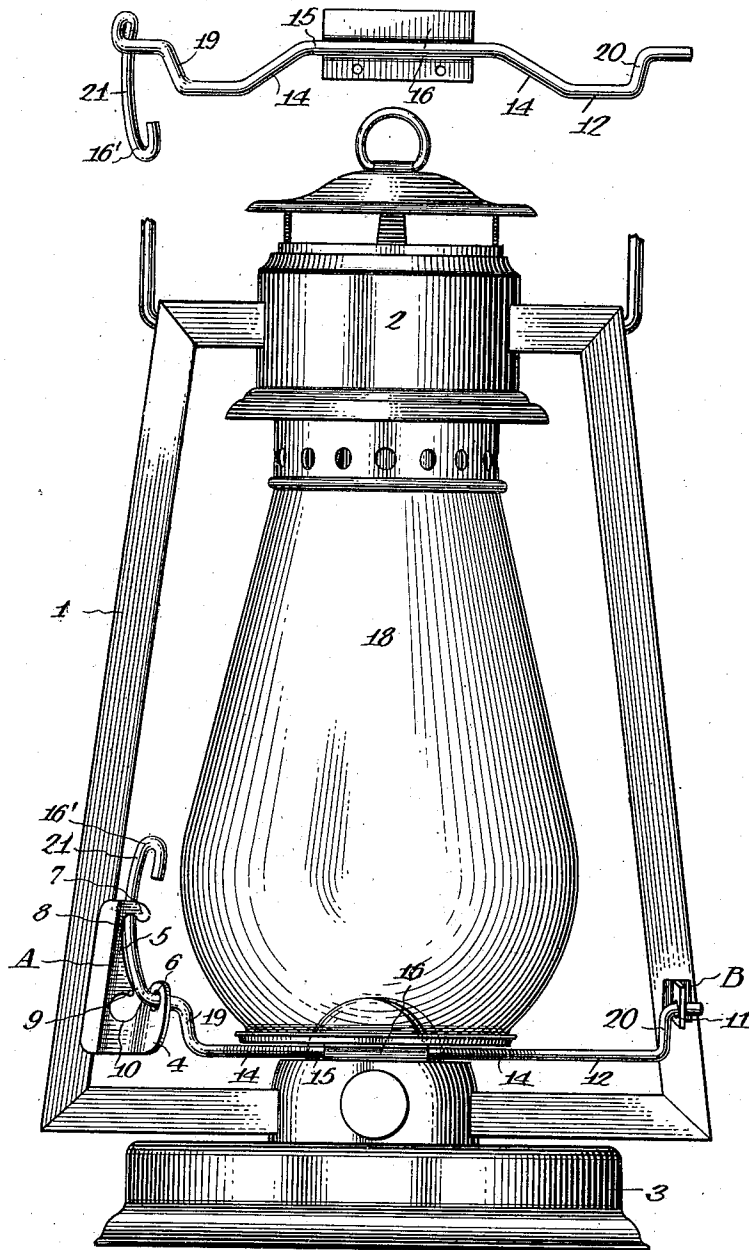


Fig. 1.

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2 SHEETS—SHEET 2.

Fig. 2.

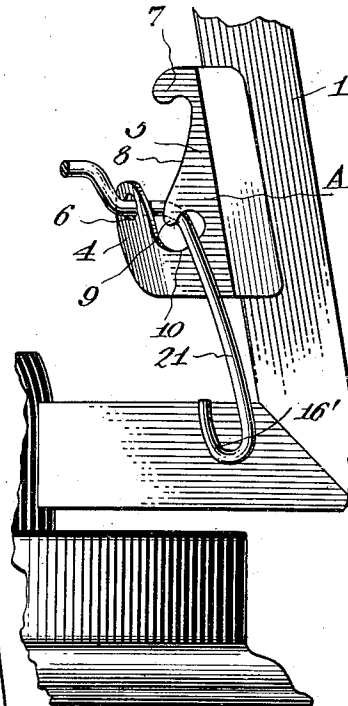
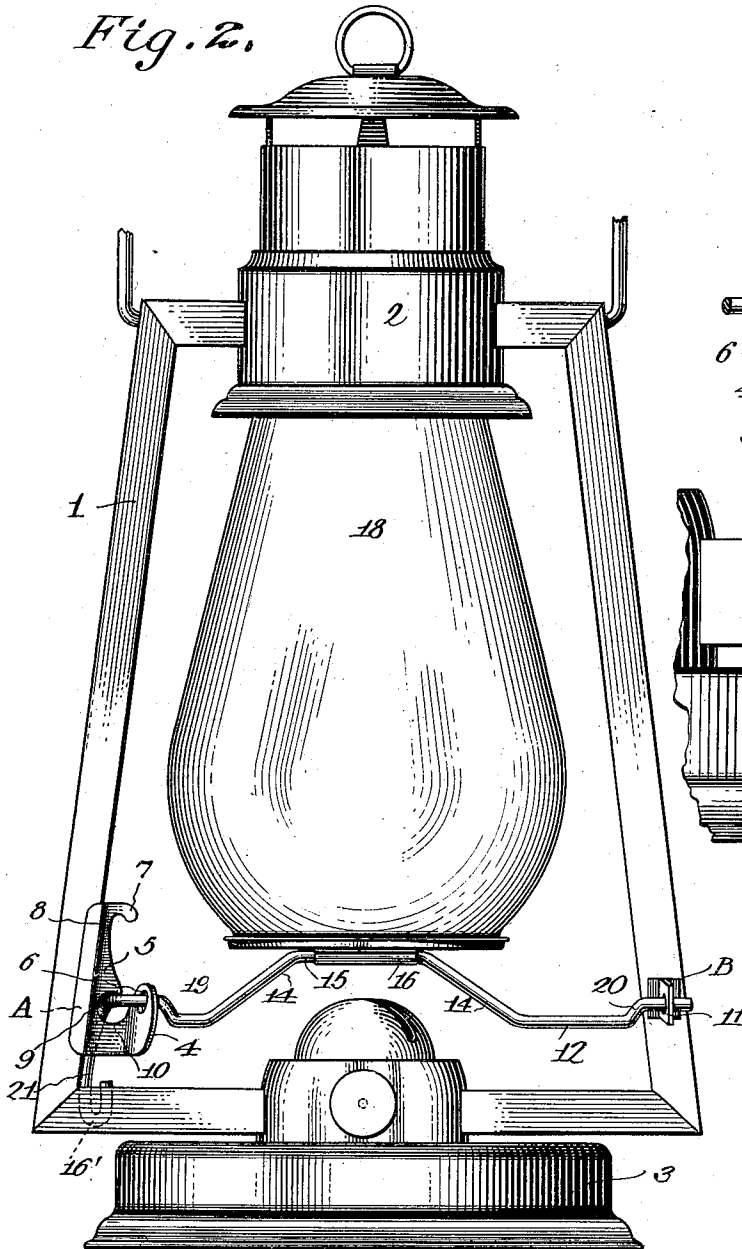


Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM T. IDDINGS AND FRANK A. IDDINGS, OF WARREN, OHIO.

GLOBE-LIFTING DEVICE FOR LANTERNS.

982,181.

Specification of Letters Patent.

Patented Jan. 17, 1911.

Application filed October 17, 1910. Serial No. 587,640.

To all whom it may concern:

Be it known that we, WILLIAM T. IDDINGS and FRANK A. IDDINGS, citizens of the United States, residing at Warren, in the
5 county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Globe-Lifting Devices for Lanterns, of which the following is a specification.

This invention relates to improvements in
10 lever-lifts for lantern globes.

The objects of our improvements are, first to provide a lever-lift device that can be made as a whole, independently of the lantern, and be attached to a non-extinguish-
15 able lantern without puncturing its supporting blast tubes; second, to provide a lifting device no part of which shall extend outside of the protecting width of the lantern and whose handle will be guarded from acci-
20 dental operation; and, third, to provide an automatic locking of the lifting device when the globe is raised and when it is lowered.

The invention will be hereinafter fully set forth and particularly pointed out in the
25 claim.

In the accompanying drawings, Figure 1 is a side view of a lamp with its globe lowered ready for use. Fig. 2 is a side view of a lamp with its globe raised ready for
30 lighting the wick. Fig. 3 is a view of the lock plate A of Fig. 1 taken from the rear and at an angle of 45 degrees to that of the view shown in Fig. 1, and Fig. 4 is a view of the lifting device and its attachable hinge
35 plate.

Referring to the drawings, 1 designates the side tubes of a tubular lantern; 2 a cold blast casing to which the upper ends of tubes 1 are attached at diametrically oppo-
40 site points; 3 the base or oil cup of the lantern to which tubes 1 are similarly attached.

A is a lock plate stamped from a single piece of metal in such form that the ear 4
45 is at right angles to the face 5.

6 is a hole through the ear 4 and serves as one support for the lever lifting device.

The top of plate A is formed into a hook 7 and its edge 8 is beveled so as to extend
50 beyond the line of hook 7, relatively to the inside face of tube 1, and a second hook 9 is formed at its outer and lower end. Below and behind the hook 9 is formed the pocket 10 at whose outer extremity the plate is
55 right-angled to form the ear 4.

B is a plate having a hole 11 therein and serves for the second support of the lifting lever: 12 is the lifting lever formed of a single piece of bent spring wire having two outward bends 14 and a straight support-
60 ing portion 15 which rotates freely in a tubular channel formed in a flat metal plate 16, Fig. 4. The end of the wire lifting device is bent to form a thumb piece or
65 handle 16'.

The plates A and B are stamped and bent to the shapes described, the lifting wire 12 is passed through the tube formed in plate 15 and is then bent to the shape shown. The lifting device is then complete and the
70 plates A, B and 15 may be attached in any manner to the tubes 1 and plate 17 which supports the lamp globe 18. In practice the plates A and B may be clamped about or
75 soldered to the inner edges of the tubes 1 and the plate 15 we rivet to the base 17.

An essential feature of our invention consists in forming the wire lifter 12 of such a length that the distance in a right line between the elbows 19 and 20 shall be nor-
80 mally slightly greater than the distance in a right line between the ear 4 and the plate B by reason whereof the resiliency of the wire lifter automatically forces the stem 21 of the handle 16 into locked relation with
85 the plate A under the hooks 7 and 9 when the globe is lifted or lowered, and to press the stem 21 smoothly against the beveled edge 8 while in transit. By making the distance between the hook 7 and the ear 4 but
90 a very little wider than the diameter or gage of the wire of the lifter 12 the locking of the stem 21 under the hook 9 is assured without the necessity of any attention on the part of the operator.
95

We claim as our invention:—

In means for lifting lantern globes, a supporting plate for one end of the lifter, an ear bent at right angles to said plate, a hole in said ear, upper and lower locking hooks in
100 said plate and a beveled edge on said plate extending between said hooks, for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM T. IDDINGS.
FRANK A. IDDINGS.

Witnesses:

GEO. T. HECKLINGER,
AUDREY DOTY.