

J. H. HILL.
 LANTERN GLOBE LIFTER.
 APPLICATION FILED APR. 1, 1911.

1,036,113.

Patented Aug. 20, 1912.

FIG. 1.

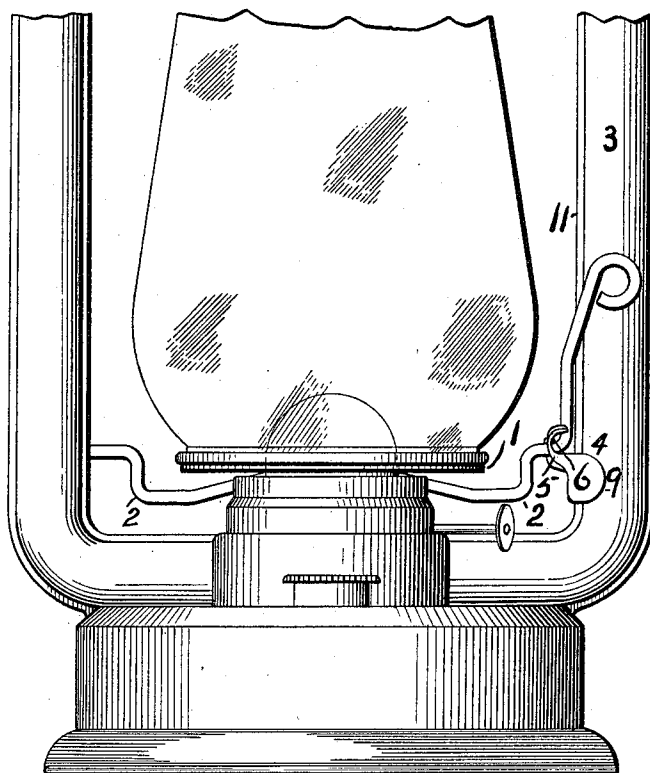
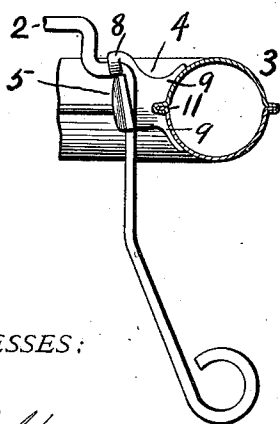


FIG. 2.



WITNESSES:

A. C. Baldwin
 C. M. Catlin

FIG. 3.

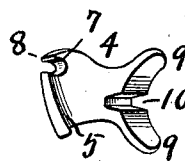
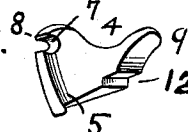


FIG. 4.



INVENTOR

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JAMES H. HILL, OF ROCHESTER, NEW YORK, ASSIGNOR TO EMBURY MANUFACTURING CO., OF ROCHESTER, NEW YORK, A CORPORATION OF NEW YORK.

LANTERN-GLOBE LIFTER.

1,036,113.

Specification of Letters Patent.

Patented Aug. 20, 1912.

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To all whom it may concern:

Be it known that I, JAMES H. HILL, a resident of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Lantern-Globe Lifters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to lantern-globe-lifters, and especially to improved means for holding the lifting crank-shaft at its handle end.

The object of the invention is to simplify and cheapen devices of the character indicated, and the invention consists in the construction hereinafter described and particularly pointed out in the claims.

In the accompanying drawing which illustrates the invention and forms a part of the specification:—Figure 1 is a side elevation of a lantern with the improved device thereon; Fig. 2 is a plan view of the device on a lantern air tube, the latter being in section; Fig. 3 is a perspective view of the shaft holding device detached from a lantern; Fig. 4 shows a modified device.

In the drawing numeral 1 denotes the globe-holding plate, 2 the globe-lifting crank-shaft suitably connected thereto, and 3 the side or air tubes of a tubular lantern,

Numerals 4 and 5 denote the crank-shaft-holding device at the handle-end of said shaft which embodies the present improvement. The device 4 comprises a single malleable casting, preferably of steel. It has an ear 5 the top of which extends obliquely in such manner as to form a recess 6 under it for receiving the lifter-shaft 2 and holding it when the globe plate and globe are lifted. The ear 5 is cast with a groove or notch 7, and an outside lug 8 which can be bent over the crank-shaft after it has been placed in the groove or notch 7 to complete the bearing of the shaft. When the globe is down and the shaft-handle is up, the latter stands at the part of the oblique top of ear 5 most remote from the air tube. The casting 4 also comprises, in the preferred form, two ears 9, 9, shaped to snugly fit the inner side of the air tube as shown. Between said ears is a groove 10 just large enough to fit

over the joint-flange 11 of the air tube. This aids in exactly locating and strongly securing the device 4 on the air tube.

In some cases it is proposed to cast the part 4 with but one of the ears 9, the ear retained being adapted to be fitted to one side of the air-tube flange as shown in Fig. 4 at 12. In this form the body 4 fits against one side of the tube flange, being thereby centrally located on the tube and the solder strongly secures the device to the tube and flange.

It is found that the malleable casting forms a device 4 having marked advantages over devices heretofore used for a like purpose. It is very easily made, and is more durable than sheet metal devices. It is small and light and does not mar the appearance of the lantern. One advantage of the cast device over sheet metal devices of this general character is that the cast device is made to vary in thickness in its parts according to the form and purpose of such parts. Thus, parts 9 increase in thickness toward their inner ends and approach each other in a body of comparatively large mass in which the groove 10 is formed, while the upwardly extending ear 5 is of reduced thickness but sufficient for demands upon it. In a sheet metal device such variation cannot practically occur and the whole device must be made of a heavy grade of sheet metal.

Having described the invention what I claim is:—

1. A globe lifter shaft holding device comprising a malleable casting having a body of varying thickness adapted to snugly fit and to be secured to a lantern air tube, and an ear projecting to one side and upwardly from such body, said ear being of less thickness than the body and having shaft holding means.

2. A globe lifter shaft holding device comprising a casting varying in thickness and having a body adapted to snugly fit and to be secured to an air tube, and an ear extending to one side and upwardly therefrom, said ear having a shaft-receiving-notch and an integral lug adapted to close the notch after the shaft is placed therein.

3. A globe lifter shaft holding device comprising a thick body having curved com-

paratively thin side ears adapted to fit and
to be secured to the side of an air tube, said
thick body being grooved between said ears
to fit over a longitudinal flange on said tube,
5 and having a shaft-holding extension.

In testimony whereof, I have signed this

specification in the presence of two subscri-
ing witnesses.

JAMES H. HILL.

Witnesses:

N. C. EMBURY,

T. L. WALKER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."