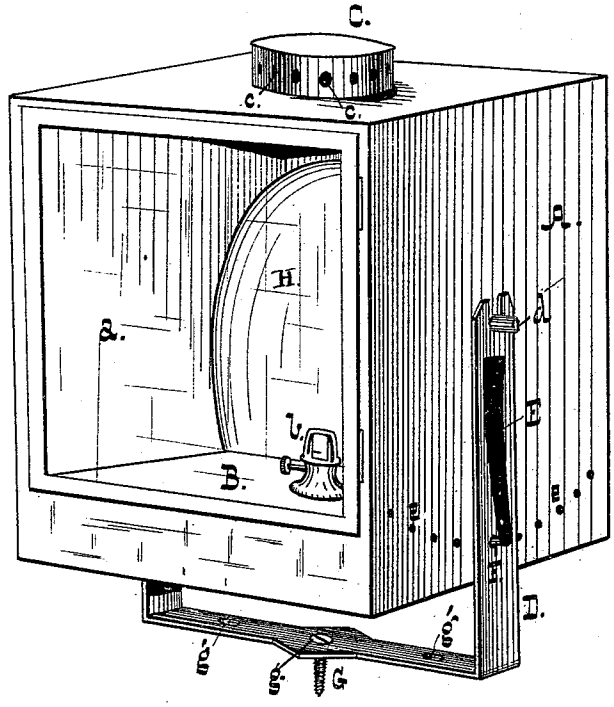
C. J. KOEFOED.

Carriage-Lantern.

No. 211,915. Patented Feb. 4, 1879.



Witnesses,

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CHARLES J. KOEFOED, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN CARRIAGE-LANTERNS.

Specification forming part of Letters Patent No. **211,915**, dated February 4, 1879; application filed December 13, 1878.

To all whom it may concern:

Be it known that I, CHARLES J. KOEFOED, of Baltimore city, State of Maryland, have invented certain new and useful Improvements in Carriage-Lanterns; and I hereby declare the same to be fully, clearly, and exactly described as follows, reference being had to the accompanying drawings, in which is illustrated, in perspective view, a lantern embodying my present improvements.

While my present invention is especially adapted to supply a need in connection with carriage-lanterns, it is by no means confined thereto, certain of its features rendering it applicable to other purposes, as will be readily understood from the following description of the lantern, illustrated in the accompanying drawings, and embodying my said invention.

A represents the casing of the lantern, which is constructed, preferably of sheet metal, and is provided with the usual hinged glazed front *a*, oil-reservoir B, burner *b*, cap C, having perforations *c*, reflector H, and suitable draft-holes in the bottom. In a word, the lamp, considered merely as a lamp, differs in no essential particular from lamps of the ordinary construction. D represents the support, upon which the lamp rests on pivots *d*, secured to the sides of the lamp-casing A. E is a spring, secured to one side of the support, carrying a pin, F, which passes through a hole in the support, and is adapted to enter any one of a series of holes, *e e*, formed in the casing A in the arc of a circle having the pivot *d* as its center.

The bottom piece of the support is centrally perforated at *g* for the attaching screw or bolt G, and holes *g'* are also formed in the support at either side of the center.

The operation of the device is as follows: The support D being firmly attached to the front rib of the carriage-top, the lamp is mounted thereon, and is so adjusted by means of the spring E and pin F that the rays of light will be reflected horizontally forward. The adjusting device affords a means of accomplishing this end, whatever be the angle of inclination of the top. When used in connection with a carriage or buggy top, of course but one adjustment—viz., that about a horizontal axis—is desirable. The feature of adjustability about two axes at right angles is, however, of great importance in certain applications of the lamp, when it is desirable to direct the rays to a point at one side of and above or below the lamp—such, for instance, as in the case of a shop or store, the counter or disk being illuminated during business hours, and the safe or vault at other times.

When thus used, the lamp is attached to a suitable shelf by a single screw through the central hole *g*; but, when the feature of double adjustability is not desired the support is secured by additional screws through the holes *g'*.

The lamp is readily removable for filling or cleaning, it being only necessary to lift the pin F out of engagement with the hole *e*, when the lamp may be lifted from the support.

As the oil-reservoir is located in the bottom of the casing the center of gravity of the latter is somewhat below the center of the casing, and hence slightly below the pivots upon which it is mounted. As a consequence of this construction, but little if any strain is brought upon the locking device in case of a jolt or other agitation, and the stability of the device is greatly increased.

I am aware that it is not new to mount a lantern on gimbals, as binnacle lights and torches have been secured in that manner to their supports, and such I do not claim.

What I claim as new, and desire to secure by Letters Patent, is—

1. A lantern adapted for attachment to a carriage or buggy, the said lantern being pivoted about a horizontal axis above its center of gravity, and provided with means for securing it in any position to which it may be brought, substantially as described.

2. A lantern pivoted about a horizontal axis above its center of gravity, and also about a vertical axis, and adapted to be secured about one or both of them, substantially as described.

3. In combination with the lantern A, having pivots *d*, the support D, having a perforated base, and mechanism for locking the lantern, substantially as described.

4. In combination with the lantern A, having pivots *d* and perforations *e*, the support D, having spring E and pin F, and adapted for attachment to a suitable support, as set forth.

CHARLES J. KOEFOED.

Witnesses:
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