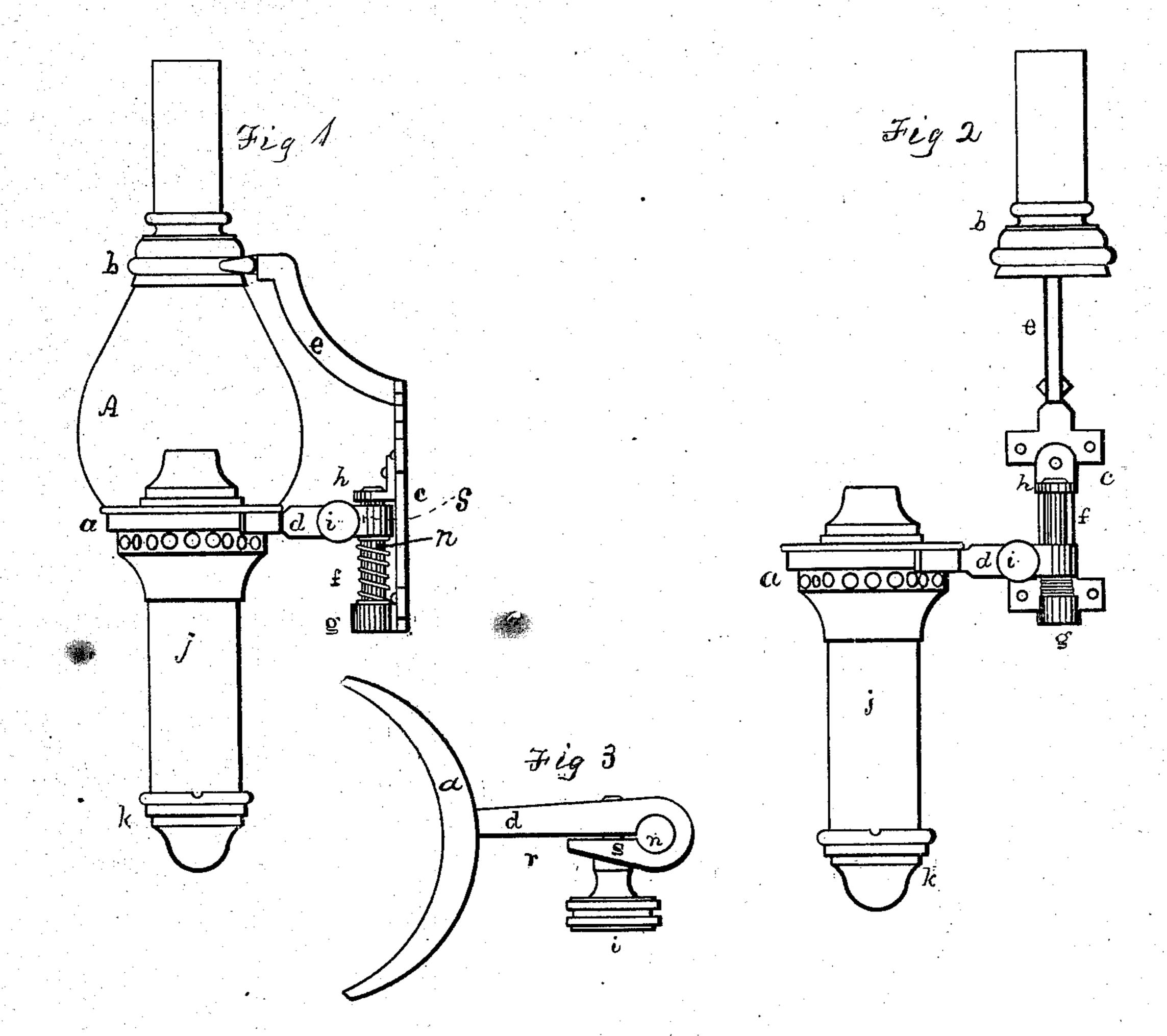
J. B. HOYT Car-Lamp.

No. 159,324.

Patented Feb. 2, 1875.



Witnesses. OW. Bond.

Dames B. Hork Inventor

UNITED STATES PATENT OFFICE.

JAMES B. HOYT, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN CAR-LAMPS.

Specification forming part of Letters Patent No. 159,324, dated February 2, 1875; application filed July 27, 1874.

To all whom it may concern:

Be it known that I, James B. Hoyt, of the city of Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Car-Lamps, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation; Fig. 2, a front elevation, showing the receiving-hoop turned around into the proper position for removing and replacing the globe; and Fig. 3, an en-

larged detail.

My invention relates to so-called loose-globe car-lamps; and its nature consists in making the hoop which receives the globe, and connecting the same with the supporting-bracket, in such a manner that the hoop can be depressed and turned around for the purpose of removing the globe and replacing the same, and in permanently connecting the receiving-hoop with the candle-socket, thereby dispens-

ing with a set of springs.

In the drawings, A represents the globe; a, the receiving-hoop; b, the cap, into which the upper end of the globe passes; c, a bracket to be attached to the side of a car. The hoop a is permanently connected to the part d, which is connected with the bracket c in such a manner that it, with the hoop, can be depressed and swung around to one side. This can conveniently be done by connecting with the bracket a pin, f, and providing the part d with a hole, n, to receive such pin. This pin f, as represented, is supported upon g, and its upper end may be supported, after the part d has been placed thereon, by means of a collar, h, secured to the bracket c by means of a screw.

A convenient way of making the part d is represented in Fig. 3, n being a hole drilled through a solid piece of metal, and r a slit sawed through the solid metal, so as to pro-

vide a spring, s.

i is a set-screw, by means of which the part d can be clamped upon the pin f. e may be regarded as a continuation of the bracket c, and it is permanently connected to the cap b. j is the candle-socket, which is permanently connected to the receiving-hoop a, instead of being loosely connected therewith by means of

springs, as has been usual. The candle-holder is connected with the part k, as usual, which part is secured to the candle-socket j in the

ordinary manner.

As represented, there is a coil-spring around the pin f, which presses the part d up against the collar h, and aids in holding the receiving-hoop and globe in place. If this spring be made sufficiently strong, the set-screw i may be dispensed with, and the part d be provided simply with a hole to pass over the pin f, or the part d, when constructed as last mentioned, might be held in place by means of a set-screw, which should come in contact with the pin f.

The device can be made so as to be efficient without the use of the coil-spring. When the coil-spring is used the collar h, or an equivalent therefor, should be used to limit the upward movement of the part d; but if the coil-spring be not used, this part h is unnec-

essary, except to strengthen the pin.

The lamp is represented as adapted to be used with candles; but an oil-lamp might be used with my receiving-hoop, constructed as described.

In use, the globe can be inserted by first placing the parts in the position represented in Fig. 2; then the globe is to be placed in its receiving-hoop a, after which this hoop can be turned around to the position represented in Fig. 1, and elevated, the top of the globe entering the cap b. The parts are then to be secured in this position by means of a set-screw, or held there by the coil-spring, or in some other suitable manner.

The globe can be removed in a similar way by loosening the set-screw, pressing down the part d, and turning the receiving hoop, with

the globe, away from the part b.

It is not necessary that the hoop be thrown around from under the cap b, since, if the hoop be pressed down, as described, so as to release the top of the globe from the cap, the globe can then be removed, in which case the pin f need not be round; but in use it will be found more convenient to have the parts constructed substantially as described.

I do not confine myself to any particular mode of making the bracket. It may be made

in two parts, which is the old way.

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What I claim as new is as follows:

1. In a loose-globe car-lamp, having an immovable globe-cap, the combination of the candle-holder, having the hoop a, with a bracket, whereby the candle-holder has a downward, vertical, and a horizontal swinging movement, substantially as described.

2. In a loose-globe car-lamp, having an im-

movable globe-cap, the combination of the adjustable hoop a, socket j, arm d, set-screw i, and bracket, substantially as and for the purpose specified.

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