

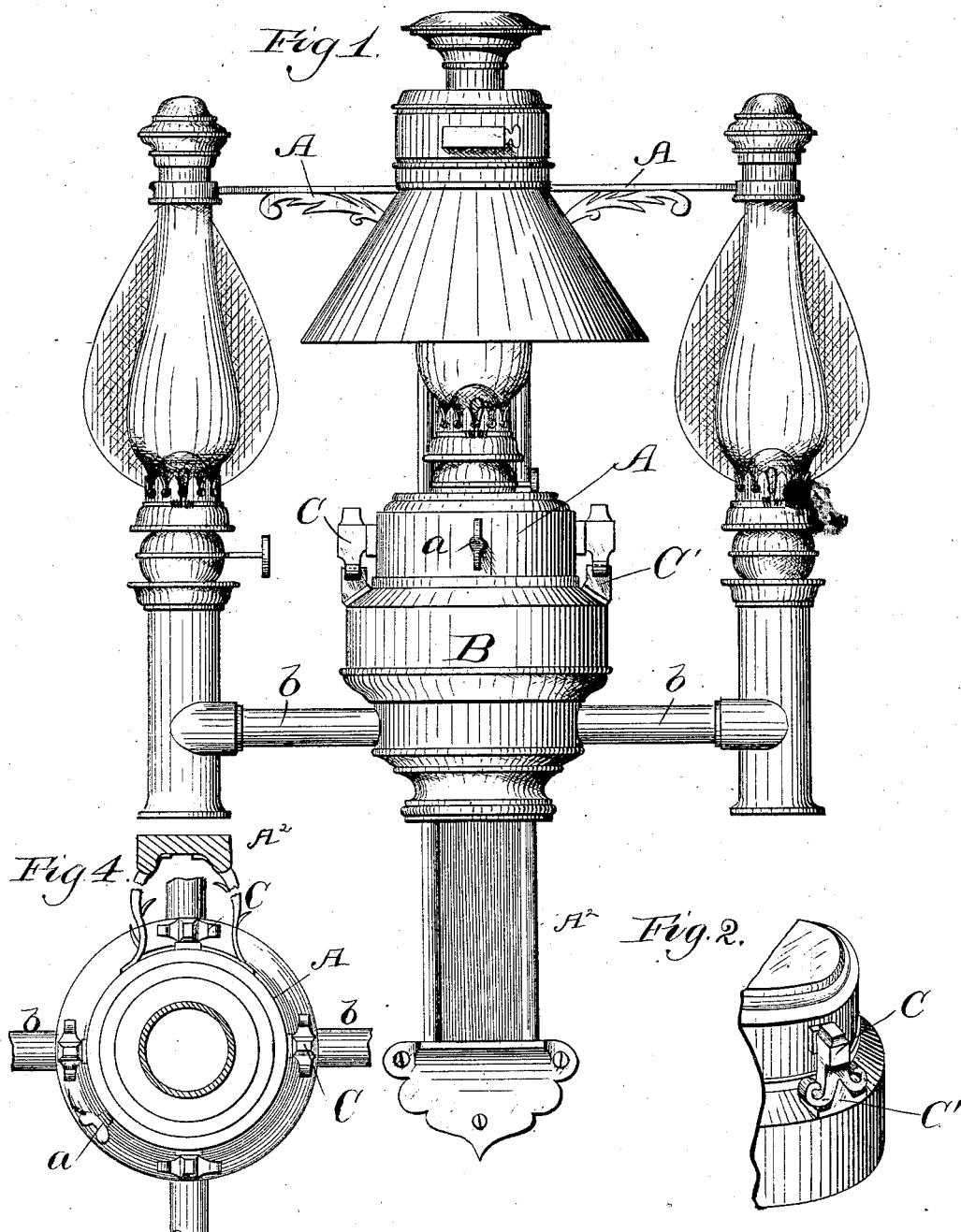
(No Model.)

2 Sheets—Sheet 1.

M. HICKS.
RAILWAY LAMP.

No. 307,045.

Patented Oct. 21, 1884.



Witnesses:

Chas. Gaylord.
Frederick Goodwin

Inventor:
Michael Hicks
by Offield & Son,
Attorneys.

(No Model.)

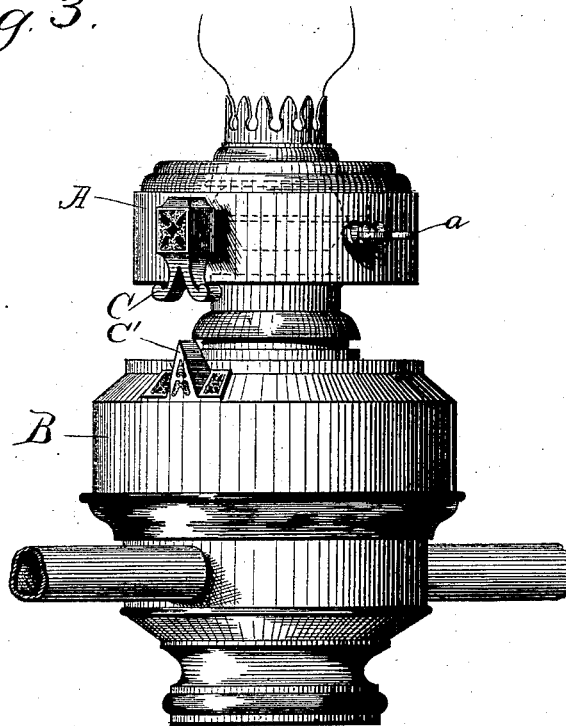
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Fig. 3.



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UNITED STATES PATENT OFFICE.

MICHAEL HICKS, OF NEW YORK, N. Y.

RAILWAY-LAMP.

SPECIFICATION forming part of Letters Patent No. 307,045, dated October 21, 1884.

Application filed July 9, 1883. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL HICKS, a citizen of the United States, residing at the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Railway and other Lamps, of which the following is a specification.

My invention relates to that class or kind of lamps in which the body of the lamp, together with the burners and chimneys placed thereon, is removable from a frame supporting and surrounding the lamp, and to which the lamp is attached by means of a spring-bolt, set-screw, or other suitable device; and the object of my invention is to provide means whereby the body of the lamp may be guided or directed into the proper position in the frame by which it is supported, and held firmly and steadily in said guides by means of a locking device when the lamp and the frame thereof are subjected to the shocks and jars incident to a moving train.

I have illustrated my invention by the drawings accompanying this specification, in which Figure 1 is a view of lamp having my improved device thereon. Fig. 2 is a detailed view of my invention. Fig. 3 is an elevation showing a lamp-reservoir, together with the supporting-frame, having connected therewith my improvements, the reservoir being shown when partially removed from the frame. Fig. 4 is a plan view of the same.

Like letters refer to like parts throughout the several views.

A is the frame supporting the shades and ornamental fixtures of the lamp, and to which is attached, by means of a spring or other locking device, *a*, the oil-reservoir B, having burners and chimneys *bb* placed thereon. The frame A may be, as illustrated in the drawings, supported by means of bracket-arms extending from a bracket-plate, A'. This mode of supporting the frame forms, however, no part of my present invention, it being evident that it may be varied within wide limits, according to the location of the lamp in the car and the taste of the constructor.

C is an inverted-V-shaped guide forming a portion of my device and attached to frame A.

C' is a wedge-shaped bolt or block attached to reservoir A, which enters into and is con-

trolled by guide C. One or more duplicate inverted-V-shaped guides, C C, are attached to frame A in the manner shown in Fig. 1. These guides are placed, when two are used, the one opposite the other, on that portion of the frame A surrounding the top of the oil-reservoir. When three are used, they are preferably placed at equal distances from each other, forming a triangle. One or more wedges, C' C', are placed on the sides and near the top, or on the top near the side, of the oil-reservoir. In case two inverted-V-shaped guides are used, placed opposite each other, it is necessary to use at least two wedge or triangular shaped pieces, likewise placed opposite each other. I prefer to use four of these wedge-shaped pieces. If it be desired, however, to use three V-shaped guides on the frame of the lamp, it will be necessary to use three wedge or triangular shaped pieces of metal on the oil-reservoir of the lamp. In either case the wedge or triangular shaped pieces of metal are placed in proper position on the oil-reservoir of the lamp, to interlock or intermesh with the inverted-V-shaped guides placed on the frame supporting the lamp.

One of the methods of applying my invention as above specified will be clearly seen by reference to Fig. 4, which plainly illustrates the elements which constitute my invention, consisting of the inverted-V-shaped guide C, which receives and controls the wedge-piece C'. This figure further illustrates how the parts indicated are separated or detached from each other, as well as the position of each when interlocked or brought together for the purpose of holding the lamp in position.

The method of operating my invention is as follows: When the oil-reservoir, containing the burner or burners and the chimney or chimneys placed thereon, is being placed into the frame by which it is to be held and supported, the wedge or triangular shaped pieces of metal on the reservoir of the lamp will engage with the inner surface of the inverted-V-shaped guide. It is evident that the point or upper portion of the wedge-shaped piece of metal may enter the opening of the inverted-V-guide at any place between the extreme lower points or ends of said guide, and that as the oil-reservoir is pushed upward into the frame surrounding the same the sides of the said guide

engaging with the wedge-shaped pieces of metal will cause the oil-reservoir to partially turn or rotate in said frame, and thus bring the oil-reservoir into its proper position in said frame. When the said wedge-shaped pieces of metal have assumed their proper position, it will be seen that both sides thereof are in contact with the inner surface of the inverted-V-shaped guide. The self-locking or other device in the frame of the lamp then engages, or may be engaged, with the reservoir of the lamp, and the reservoir, together with the burners and chimneys connected therewith, is thus held firmly in position. A rocking or other motion of the reservoir and the parts connected therewith on the locking device is by this means prevented, as well as a simple and easily-controlled construction for guiding the oil-reservoir into its proper position in the frame surrounding it attained. In removing the reservoir from the frame the shades and ornamental fixtures, chimney-cowls, &c., are retained in position by the frame, while the central burner passes downward through the latter, as illustrated in Fig. 3.

Having thus described my invention and its method of operation, what I desire to secure by Letters Patent is—

1. In a hanging or other lamp consisting of a frame having a detachable reservoir connecting therewith, a guide consisting of a wedge or triangular shaped piece of metal placed on said reservoir, interlocking or meshing with an inverted-V-shaped guide placed on that portion of the frame surrounding said reservoir, the whole constructed substantially as described, and for the purpose set forth.

2. In a lamp composed of a frame having a detachable oil-reservoir, the combination of wedge or triangular shaped piece or pieces of metal placed on said reservoir, interlocking or meshing with inverted-V-shaped guides placed on the frame, supporting said reservoir, with an automatic or other locking device holding the said wedge-shaped piece or pieces firmly in position in said V-shaped guides, the whole arranged, operated, and controlled substantially as described, and for the purpose specified.

MICHAEL HICKS.

Witnesses:

C. L. PULLMAN,
S. W. CANNELL.