

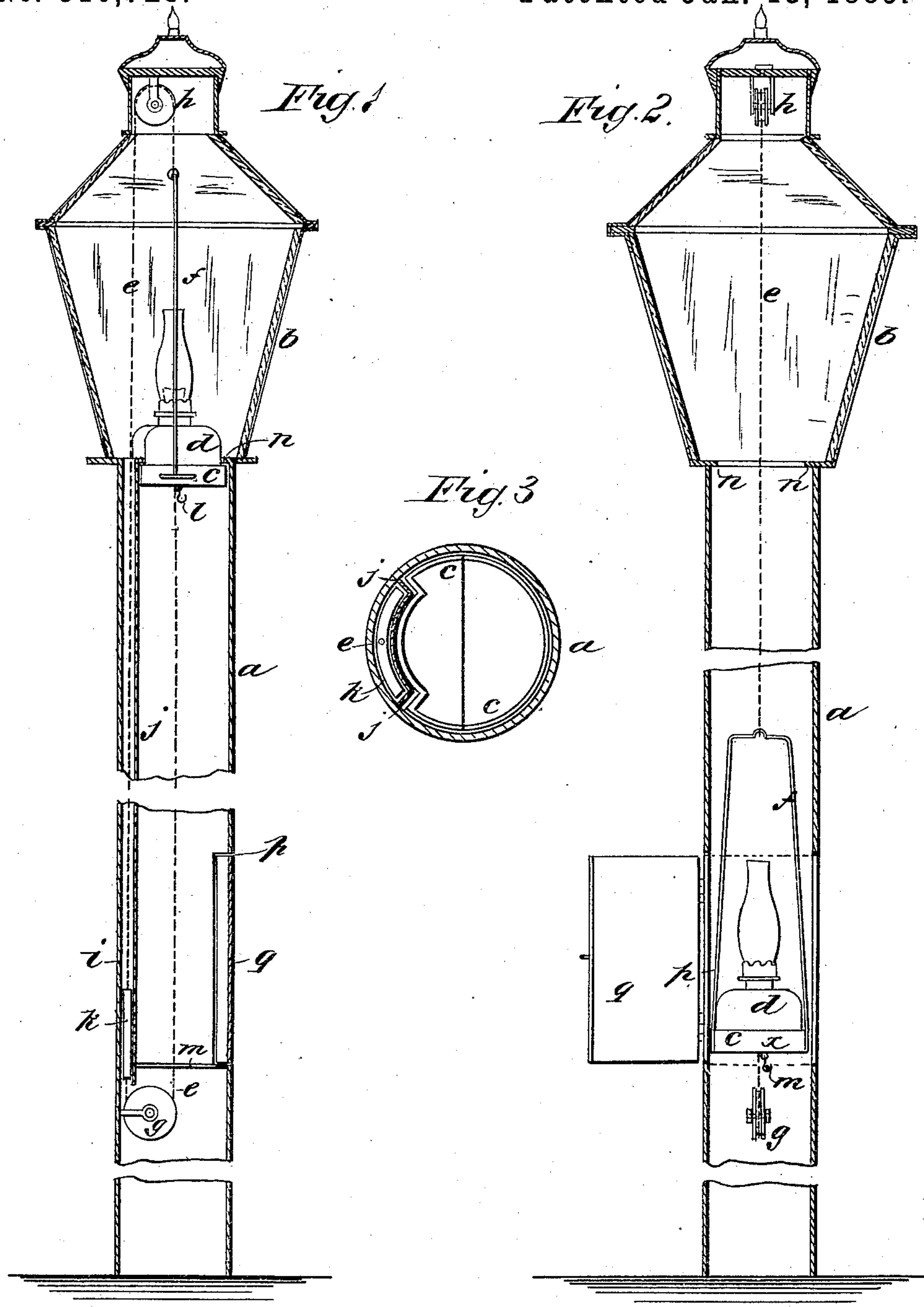
(No Model.)

H. G. SCHUETTE.

STREET LAMP.

No. 310,728.

Patented Jan. 13, 1885.



WITNESSES:

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H. GEORGE SCHUETTE, OF MANITOWOC, WISCONSIN.

STREET-LAMP.

SPECIFICATION forming part of Letters Patent No. 310,728, dated January 13, 1885.

Application filed March 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, H. GEORGE SCHUETTE, of Manitowoc, in the county of Manitowoc and State of Wisconsin, have invented a new and Improved Street-Lamp, of which the following is a full, clear, and exact description.

My invention consists of an elevator contrivance arranged within a hollow lamp-post for suspending an oil-lamp, in a convenient arrangement for lowering the lamp from the lantern to an opening in the side of the post in reach of a person standing on the ground, for filling and trimming the lamp without climbing the post, the said improved contrivance comprising a support for the lamp connected in an endless chain running over guide-pulleys and through a chamber separated from the lampway by a partition, in which a counter-balance for the lamp, also connected in the endless chain, works, and all being arranged within the hollow space of the lamp-post for protection from snow and ice and from wanton abuse, all as hereinafter fully described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional elevation of my improved street-lamp post with the oil-lamp elevated into the lantern for use. Fig. 2 is a section with the lamp lowered to the position for filling and trimming the lamp, and Fig. 3 is a longitudinal section of the lamp-post.

I make a tubular post, *a*, of suitable size and formed with a lantern, *b*, on the top, of approved construction, and arrange an elevator-platform, *c*, within the post, of suitable form to support a lamp, *d*, connecting said platform in an endless-chain device by attaching it at the bottom to one end of a chain, *e*, and connecting it above to the other end of the chain by a yoke or bail of wire, *f*, the chain being arranged on pulleys *g* and *h*, which are suitably mounted in the post near the ground and in the top of the lantern, respectively, to suspend the lamp centrally in the hollow space of the post, and so that the lamp may be readily shifted up and down in the post by pulling the chain one way or the other. The other stretch of the chain between the pulleys is made to run close alongside of the shell of the post and

through a narrow space, *i*, separated from the main space by a partition, *j*, and has a counterbalance-weight, *k*, connected to it, for enabling the lamp to rest or stand in any position where it may be left without having to hold it. At the same time the counter-balance is designed to be slightly heavier than the lamp, to prevent the lamp from tending downward by any action of the shocks and jars to which it may be subject by the trembling of the earth caused by heavy carriages running along the roadway, and the like.

At the top of the post *a*, I have provided a stop-flange, *n*, to limit the ascent of the lamp by the contact of the platform *c* with said flange, and I have attached a hook, *l*, to the platform, for hooking onto a rod, *m*, or any other object suitably fixed at the lower end of the range of the lamp, for holding the platform against the overbalancing-weight *k* when the lamp is taken off for being filled.

The platform *c* is made in the same form as and a little less in size than the interior of the post remaining after the weight-chamber has been partitioned off, and is thus guided so as to run steadily and without turning around and twisting the chain.

The opening for access to the lamp is made in the post at *p* a suitable distance above the ground, and a suitable door, *q*, is fitted thereto for closing it, and will have any approved lock for protecting the lamp against unauthorized persons.

It will be seen that with this simple apparatus oil-lamps for use on high posts in street-lighting may be attended to much more conveniently than by climbing up the posts with a ladder to reach the lamp, and by the arrangement of the apparatus wholly within the post the appliances will be protected from snow and ice, as well as from all persons not concerned.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the hollow post *a* and the lantern *b* of a street-lamp, of an elevating-platform, *c*, connected in an endless chain, *e*, arranged on guide-pulleys *g* and *h*, located in the lower part of the post and in the top of the lantern, respectively, said post having an opening, *p*, and a door, *q*, for clos-

ing the same, near the lower end, the platform being adapted to carry and support a lamp, *d*, substantially as described.

2. The combination, with the hollow post *a* 5 and the lantern *b* of a street-lamp, of an elevating-platform, *c*, and a counterbalancing-weight, *k*, connected in an endless chain, *e*, arranged on guide-pulleys *g* and *h*, located in the lower part of the post and on the top of 10 the lantern, respectively, said post having an opening, *p*, and a door, *q*, for closing the same, near the lower end, the platform being adapted to carry and support a lamp, *d*, substantially as described.

15 3. The combination of the elevator-platform *c*, weight *k*, chain *e*, and the guide-pulleys *g* and *h*, with the lantern *b* and hollow post *a* of a street-lamp, said platform, weight, and chain

being connected in endless belt, and arranged to run up and down in said post and on said 20 pulleys, and said post having a partition, *j*, separating the weight-chamber *i* from the main space wherein the elevator runs, the weight being arranged to run in said weight-chamber, substantially as described. 25

4. The hollow post *a*, having a stop-flange, *n*, at the base of the lantern, in combination with the elevator-platform *c*, arranged in an endless chain running on pulleys *g* and *h* near 30 the bottom of the post and at the top of the lantern *b*, respectively, substantially as described.

H. GEO. SCHUETTE.

Witnesses:

GUST. ALTER,
URBAIN GAGNON.