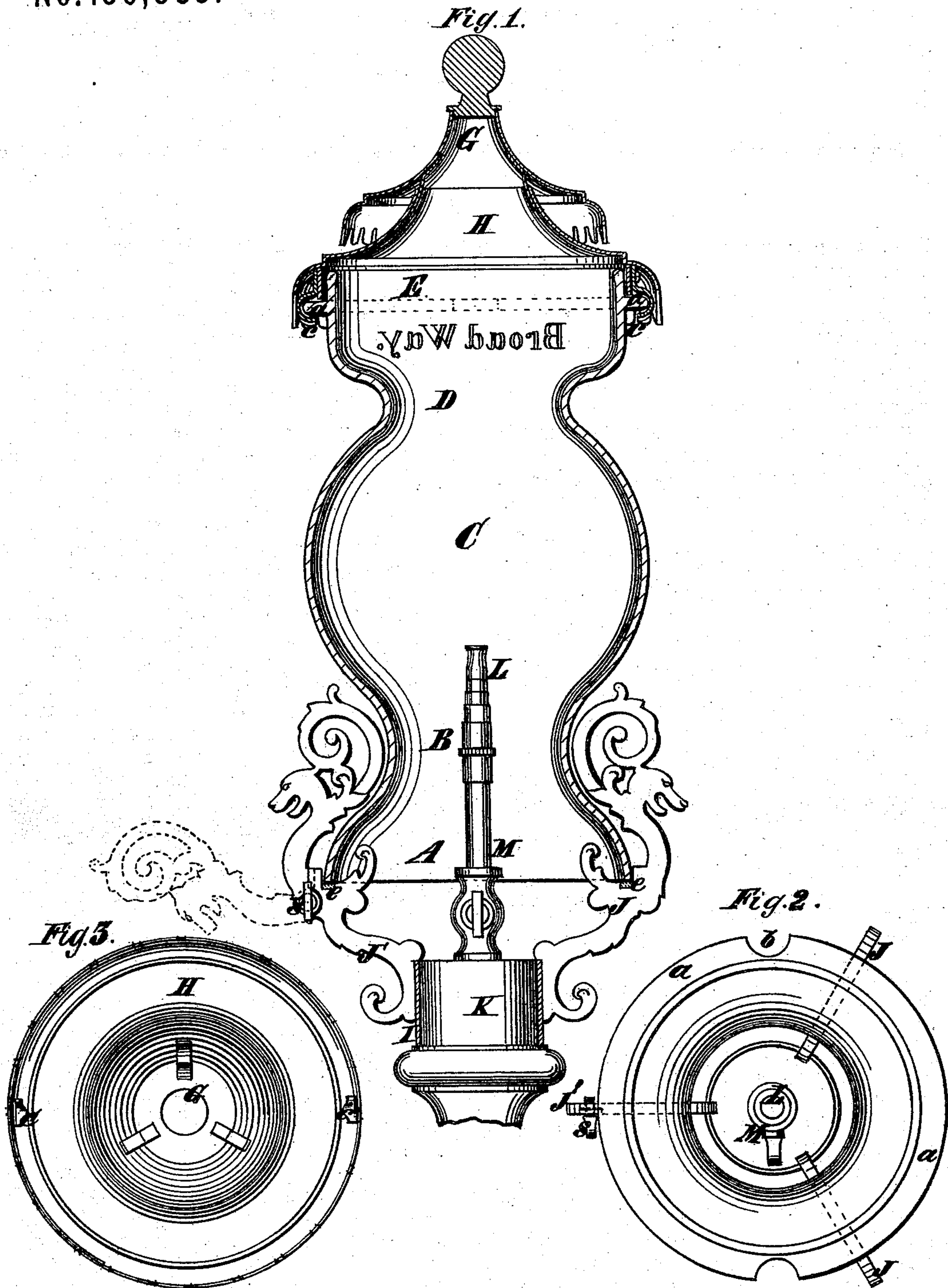


MARY A. CHAPIN.
Street-Lamps.

No. 156,535.

Patented Nov. 3, 1874.



Witnesses:
M. M. Livingston
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UNITED STATES PATENT OFFICE.

MARY A. CHAPIN, OF NEW YORK, N. Y.

IMPROVEMENT IN STREET-LAMPS.

Specification forming part of Letters Patent No. **156,535**, dated November 3, 1874; application filed April 17, 1874.

To all whom it may concern:

Be it known that I, MARY A. CHAPIN, of the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Street-Lamps; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, which forms a part of this specification.

My invention consists, first, in a globe for gas and oil burners, having an expanded base, a contracted throat, an expanded flame-chamber, a contracted neck, and an expanded mouth or top, whereby I produce a globe especially designed for street-lamps and park-lamps, and one which can be easily and quickly cleaned from either top or bottom; one which insures a steady flame; and one upon which the names of streets or walks can be painted or etched, and be conspicuously displayed and easily read both in the day-time and night-time.

It further consists in a novel holder for the globe, such holder being composed of three or more arms provided with shoulders or supports, for receiving the bottom edge of the base of the globe, and being also provided with upwardly-extending portions for steadying the base of the globe by outside pressure, when necessary, and one or more of such holding-arms being provided with a joint or hinge, for permitting it to be thrown down sufficiently to admit of the insertion of the base of the globe between the several arms of such holder.

In the accompanying drawing, Figure 1 is a central vertical section of my improved globe, its cover or canopy, and its holder. Fig. 2 is a top view of the globe, its cover having been removed; and Fig. 3 is an inverted plan or under-side view of the cover.

A B C D E designate the globe or shade of the lamp, such globe consisting, in this instance, of an expanded base, A, a contracted throat, B, an expanded flame-chamber, C, a contracted neck, D, and an expanded mouth or top, E. A globe thus constructed gives a steady light, is a perfect shield to the burner from sudden gusts of wind, and its construction enables it to be easily cleaned from top and bottom while in its stand or holder, and

its expanded top affords a very conspicuous place for marking the name of a street or any other word or words, and one where they will not obscure the light of the burner.

This globe or shade, preferably, has at or near the top of its expanded mouth a circumferential bead or rib, *a*, which is notched in two or more places, as shown at *b b* in Fig. 2, to permit the lugs *c c* on a canopy or cover, G H, to pass through, so that their noses, when the cover is turned a little, will rest under such rib and secure the cover in place. The cover G H, in this instance, consists of two concavo-convex or conical disks, G and H, which are stamped out of sheet metal or made of other suitable material, and are arranged, the one, G, above the other, H, the latter being open at the top and adapted to fit on the upper part of the expanded top E of the globe, and being provided with the lugs *c c*, and the former being closed at the top and arranged to cover the open top of the other. The lugs *c c* correspond in number and position with the notches *b b* in the bead or rib *a*, and consist of strips of metal which are bent over to clutch or embrace the said bead or rib *a*, and secure the cover on the globe.

It will be understood that no independent fastenings are required to fasten the cover in place, and, for this reason, if a globe should be broken, its cover can, without any alteration or adaptation, be applied to a new one, and it will be readily seen that the shape of this cover may be varied in many ways—for instance, its lower section H may be extended outward and be made to constitute a reflector.

I J J J' designate the holder, I being a ferrule, which fits the top of a post, K, and J J J' being arms, which support and hold the globe or shade in place. Each arm J is provided at a short distance from its lower end with a shoulder or rest, *e*, which is preferably faced with india-rubber or other soft material, and which receives and supports the bottom edge of the globe. The upper portion of the said arms are so arranged as to hold the globe by outside pressure, and prevent it from being tipped or blown over. One or more of these arms, preferably one, is jointed at or near its shoulder or rest *e*, and its upper portion may be locked in position by a screw, *s*, which

clamps it at the joint. This enables the said arm to be swung outward or downward, as shown in dotted lines in Fig. 1, to permit removal and replacement of the globe.

It will be understood that this jointed arm may be jointed to move sidewise, or to be removable altogether, or that its upper portion may be removable, but I prefer, however, to joint it to swing either outward or sidewise. And this holder is not, of course, confined in its application to lamp-posts, but is well adapted to brackets or stands.

L designates the burner, and M the supply-pipe, both of which are of the usual construction and arrangement.

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

1. The combination, with a glass globe having a contracted neck and throat, an expanded flame-chamber, and flaring base, of an outwardly-flaring or expanded mouth or top, substantially as and for the purpose specified.

2. The vertical arms J J, and hinged or jointed arm J', adapted for use in combination with a globe or shade having an expanded base, A, and a contracted throat, B, constructed, arranged, and operating substantially as herein specified.

MARY A. CHAPIN.

Witnesses:

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