

F. SIBLEY.
Christmas-Tree Lamp.

No. 217,908.

Patented July 29, 1879.

FIG. 1.

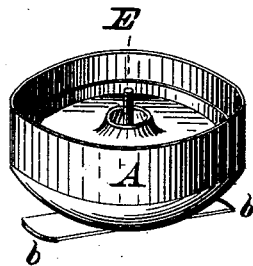


FIG. 2.

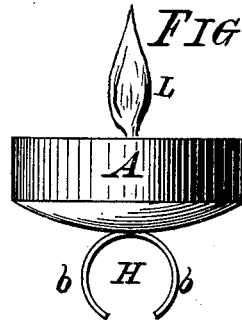


FIG. 3.

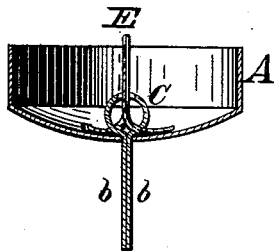


FIG. 4.

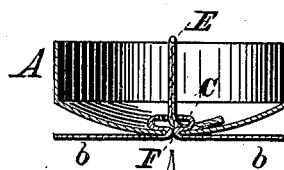


FIG. 5.

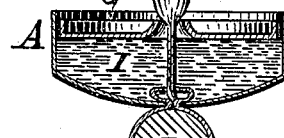
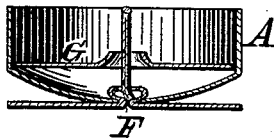


FIG. 6.

FIG. 7.

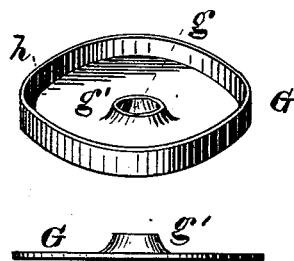


FIG. 8.

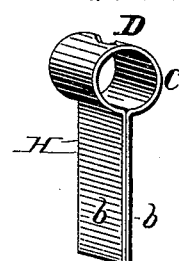


FIG. 10.

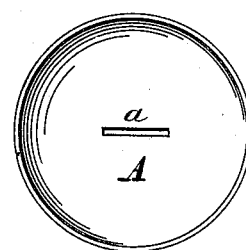


FIG. 9.

Witnesses:

Michael Stark
Jno. Stark

Inventor:

Frank Sibley
by Michael Stark,
Attorney.

UNITED STATES PATENT OFFICE.

FRANK SIBLEY, OF BUFFALO, NEW YORK.

IMPROVEMENT IN CHRISTMAS-TREE LAMPS.

Specification forming part of Letters Patent No. **217,908**, dated July 29, 1879; application filed May 28, 1879.

To all whom it may concern:

Be it known that I, FRANK SIBLEY, of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements on a Christmas-Tree Lamp; and I do hereby declare that the following description of my said invention, taken in connection with the accompanying sheet of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has general reference to a new and improved article of manufacture—a Christmas-tree lamp; and its object is the production of an extremely cheap and serviceable article.

To attain this end I construct my Christmas-tree lamp as illustrated in the accompanying drawings, already referred to, in which—

Figure 1 is a perspective view of my lamp ready for delivery to the trade. Fig. 2 is a front elevation. Figs. 3, 4, 5, and 6 are longitudinal sectional elevations. Fig. 7 is a perspective view, and Fig. 9 an edge view, of the disk. Fig. 8 is a perspective view of the holder. Fig. 10 is a plan of the bowl.

Like parts are designated by corresponding letters of reference in all the various figures.

A indicates the bowl or reservoir for the fuel (liquid or solid) of my Christmas-tree lamp. I prefer to produce this bowl entire in the process of draw-stamping from sheet metal, which gives a body without a seam. This body has in its bottom a slotted aperture, *a*, Fig. 10, within which is inserted a combined wick and lamp holder, H, Fig. 8, consisting of a strip of metal bent centrally into an eye, C, and provided with an aperture, D, for the passage of the wicking E, the two parallel members *b b* of said holder being passed through the said aperture *a*, and then clinched on the under side of the bottom, as shown at F, Figs. 4 and 5.

Into the bowl A, I place a radiating disk, G, having centrally a rise, *g'*, with an aperture, *g*, for the passage of the wick E; and it may be provided with a flange, *h*, Fig. 7, in which case the disk is converted into a float, as hereinafter more fully referred to.

I prefer to furnish this article of manufac-

ture to the trade in the condition shown in Fig. 1, where the members *b b* of the holder are in a flat state, thus facilitating packing and transportation. To attach it to a tree, nothing remains to be done but to bend the prongs *b b*, as shown at H, Fig. 2, to embrace the limb H', Fig. 6, of a Christmas-tree, and thus retain it securely in position.

In manufacturing this article I proceed as follows: Having struck up my bottoms A and formed the holder H, as shown in Fig. 8, I insert the wicking E into the aperture D in said holder, and then pass the latter into the slot *a* in the bowl A, after which I clinch the prongs *b b*, and then solder the holder centrally to the bottom at F. I now, or simultaneously with clinching the prongs *b b*, flatten the eye C, (if found necessary,) whereby the wicking E is tightly embraced by said eye C, and thus supported centrally within the bowl A. Having now filled the reservoir A with preferably solid fuel, such as bees-wax, paraffine, &c., I place the disk G upon the contents of said bowl, and then pack the goods ready for the trade.

It will be observed that this lamp would be complete without the disk G—that is to say, the contents of the bowl A may be consumed by combustion without the use of said disk; but since the heat radiating from the flame L will rapidly melt the contents of the bowl A, and thereby materially assist the wicking in conducting the combustible matter to the flame, the said matter would be exhausted in a short space of time, and give a greater light than required for the purpose for which my lamp is particularly designed. To prevent this I place the said disk in the bowl, which disk will abstract sufficient heat from the flame to cause a comparatively slow combustion, and thereby allow the light to burn twice or three times as long as could be done without said disk. This disk, resting upon the solid fuel, protects the same during transportation, &c., and, after the combustible matter is rendered liquid, as described, will, in many instances, float upon the liquid. This latter quality, however, is not essential, and the disk may sink under but still protrude, with its raised center *g'*, to accomplish its object of abstracting heat from the flame. To keep it afloat, I may provide it

with a raised flange, *h*, whereby it (the disk) will be converted into a vessel, and thus accomplish the desired object.

Owing to the peculiar and novel combination and construction of parts, my lamp may be manufactured at a nominal figure, and sold to the consumer at a price not exceeding that of a common wax candle used for Christmas-tree ornamentation and illumination.

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

1. In Christmas-tree lamps, the bowl *A*, having the holder *H* fixed to its under side, said holder having the members *b b* adapted to be clinched to the branches of a Christmas-tree, substantially as and for the object stated.

2. The combination, with the bowl *A*, having the slotted aperture *a*, of the combined wick-support and holder *H*, consisting of a strip of metal bent into the form described, and passed through said aperture *a*, as and for the object stated.

3. In Christmas-tree lamps, the combination, with the bowl *A*, of a wick-support and holder,

whereby said bowl is rendered capable of being removably fixed to a Christmas-tree, substantially as and for the use and purpose indicated.

4. The flanged disk *G*, having the central rise, *g'*, with the aperture *g*, adapted to be used as a float upon the liquid fuel *I*, and to serve as a heat-abstractor, substantially as and for the purpose described.

5. The combination, with the bowl *A*, of the wick-support, the disk *G*, and the holder having the two prongs *b b*, adapted to be bent in the manner as and for the purpose mentioned.

6. The holder *H*, having the eye *C*, with the aperture *D*, and the members *b b*, combined with the bowl *A*, substantially in the manner described and specified.

In testimony that I claim the foregoing as my invention I have hereto set my hand and affixed my seal in the presence of two subscribing witnesses.

FRANK SIBLEY. [L. S.]

Attest:

MICHAEL J. STARK,
JNO. STARK.