

L. A. GOUCH.

Improvement in Detachable Fluid-Reservoir for Street-Lamps.

No. 114,550.

Patented May 9, 1871.

Fig. 1

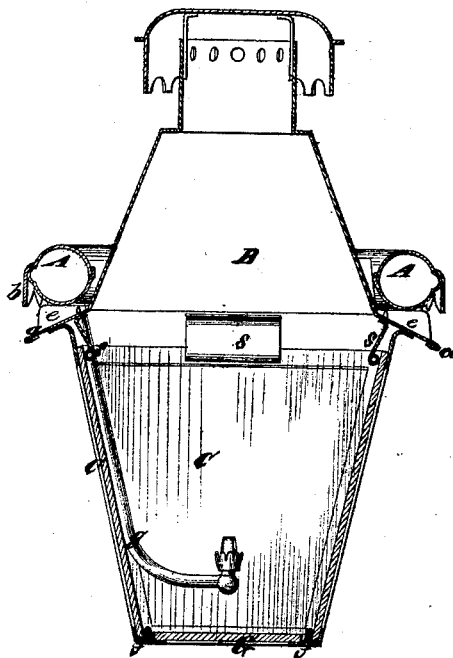
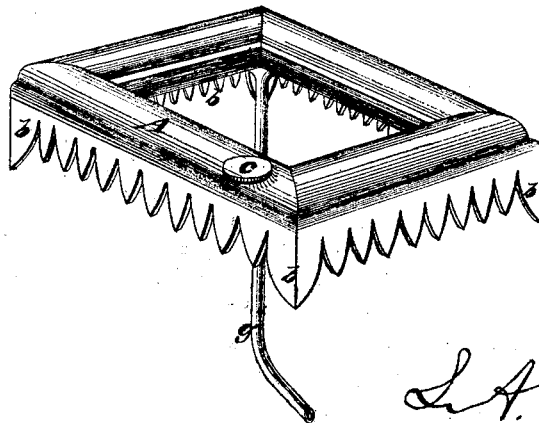


Fig. 2



Witnesses.
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Letters Patent No. 114,550, dated May 9, 1871.

IMPROVEMENT IN DETACHABLE FLUID-RESERVOIRS FOR STREET-LAMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, LYMAN A. GOUCH, of Yonkers, in the county of Westchester and State of New York, have invented a new and useful Detachable Fluid-Reservoir for Street-Lamps; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing forming a part of this specification.

This invention relates more particularly to street-lamps in which naphtha is burned, but it is also applicable to any other fluid-burning lamp.

It consists in a detachable fluid-reservoir which surrounds the exterior of the head of the lamp and rests on the shoulder thereof, and has attached to it the tube which carries the burner of the lamp.

By making this outside reservoir detachable, facility is afforded for painting all parts of it, and of the lamp-frame, which cannot be conveniently done when such reservoir is a fixture. Facility is also afforded for repairing it in case of leakage, and the reservoirs of all the lamps in a district may be collected and taken away to a depot to be filled.

In the accompanying drawing—

Figure 1 is a central vertical section of a lamp made according to my invention, and

Figure 2 is a perspective view of the fluid-reservoir detached from the lamp.

Similar letters of reference indicate corresponding parts in both figures.

A is the reservoir, made of tin-plate or sheet metal, and of the same shape in its horizontal section as the horizontal section of the lamp B.

It is circular in its transverse section, and provided on its upper side with a feed-opening, *c*, fitted with a suitable stopper.

The reservoir is ornamented on its outer side with a downwardly-projecting serrated strip of metal, *b*.

Extending downwardly from one corner of the reservoir is a tube or pipe, *g*, which is inserted through a hole in the upper part of the lamp, and is bent at the lower end to provide for the attachment of the lamp-burner.

This reservoir surrounds the head of the lamp and rests on the shoulders *a* thereof, being kept in place

by fitting around the head and shoulder. It is easily removed by raising it a little, then turning it to a position to permit the withdrawal of the pipe, and afterward lifting it off.

O O are the side glasses of the lamp, the lower edges of which are secured in grooves *ff* in the bottom of the frame of the lamp, and their upper edges are held by springs *s s*, secured to the shoulder *a* of the lamp.

These glasses can be removed by simply first lifting their lower edges out of the grooves in the frame of the lamp, and then drawing their upper edges from behind the springs *s s*. They may then be removed through the frame by turning them edgewise and drawing them out.

To reinsert the glasses they are first inserted within the lamp and their upper edges are slid behind the springs *s s*, and their lower edges are dropped into the grooves *ff*, and they are thereby secured.

The bottom glass G simply rests on the bottom of the frame, and may be removed by turning it diagonally across the hole therein and drawing it out.

This method of securing the glass provides for its expansion and obviates the danger of breaking by that means.

The pipe *g*, to which the burner is attached, may be provided with a cock to stop the supply of fluid to the burner when the lamp is not in use; but the burner which I propose generally to use is so constructed as to constitute in itself a cock, and by unscrewing and taking off this burner the pipe can be withdrawn without obstruction.

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

The detachable external reservoir A, surrounding the head of the lamp and resting on the shoulder thereof, and provided with a tube passing through a hole in the lamp for the attachment of the burner, substantially as herein set forth.

L. A. GOUCH.

Witnesses:

FRED. HAYNES,
R. E. RABEAU.