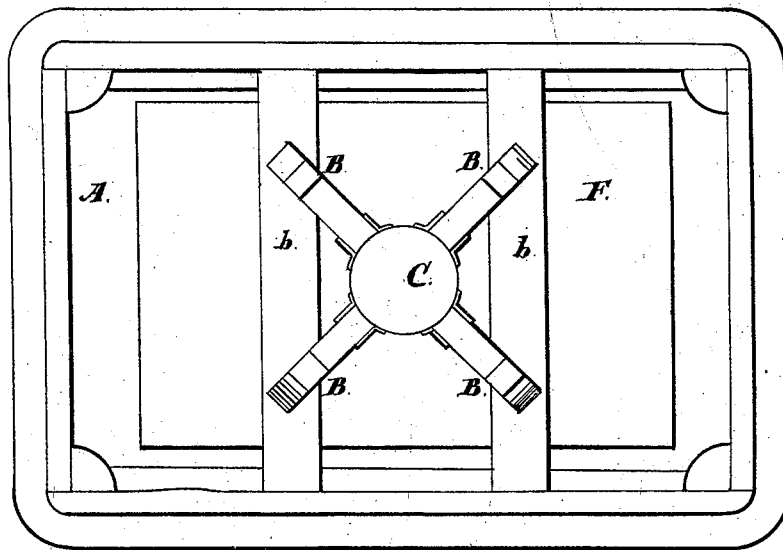
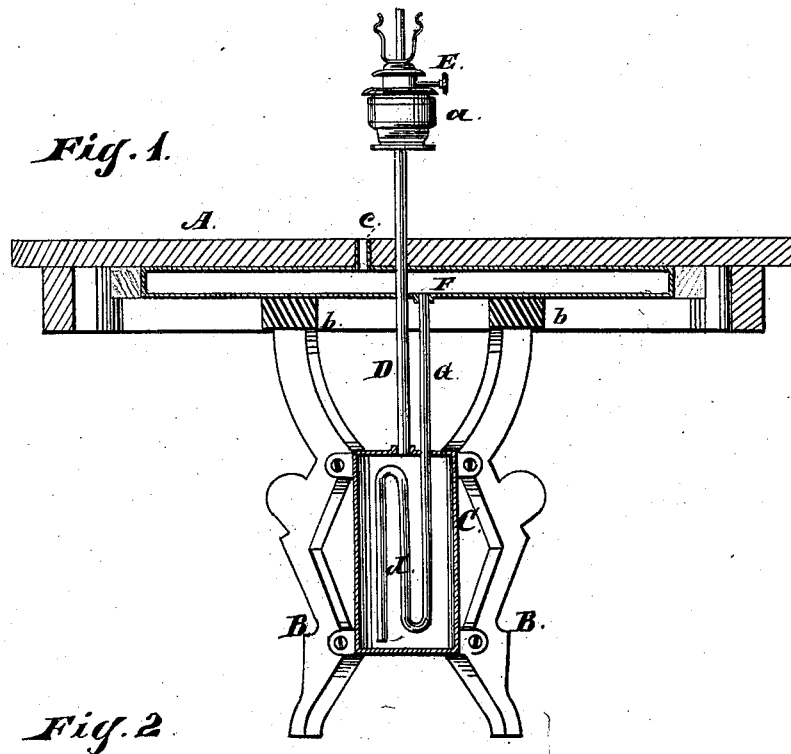


T. G. GOODFELLOW.
Lamp.

No. 221,052.

Patented Oct. 28, 1879.



Witnesses:

E. A. West
Quibaud-

Inventor:

Thomas G. Goodfellow

UNITED STATES PATENT OFFICE.

THOMAS G. GOODFELLOW, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **221,052**, dated October 28, 1879; application filed August 6, 1879.

To all whom it may concern:

Be it known that I, THOMAS G. GOODFELLOW, of Chicago, Cook county, State of Illinois, have invented a new and useful Improvement, being a Combined Hydrostatic Lamp and Table, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical section. Fig. 2 is a bottom view.

The leading object of this invention is to combine in a permanent and practical manner a hydrostatic lamp with a table or desk, which I accomplish as hereinafter fully described.

In the drawings, A represents the top of a table, supported on suitable legs B. C is an oil-reservoir, located, as shown, between and connected with and supported by the legs B. D is an oil-tube, which passes from the reservoir C up through the top A of the table. The upper end of the oil-tube D is provided with a receptacle, *a*, for the wick. E is any suitable burner connected with the top of the wick-receptacle *a*.

F is a water tank or reservoir, which is shallow, and is secured to the under side of the table-top A. As shown, it is supported on cross-bars *b*. *c* is a small tube serving the purpose of a vent.

G is a tube leading from the water-reservoir F into the oil-reservoir C, and extending nearly to the bottom thereof. *d* is a trap at the lower end of this tube G. The reservoirs and tubes must be well made, and fitted and secured so that there will be no leakage.

The burner should be located a reasonable distance—say about six or eight inches—above the table, or higher even than that, if desired.

The oil-reservoir should, for convenience, hold oil enough for several days' consumption, and the capacity of the water-reservoir should be a little less than that of the oil-reservoir.

The reservoirs can be filled for use through the tube D. The required quantity of water is to be first poured in. Then the oil is to be introduced through the same tube D, and the water will be forced up into the tank F. The reservoir F should be quite shallow, usually

not over half an inch in depth. As a result from the use of such shallow reservoir, the oil will be maintained at very nearly a uniform height, there being water enough to displace nearly all the oil in the reservoir C.

Instead of water, some other fluid of greater specific gravity than the oil may be used.

The distance between the water-reservoir and the oil-reservoir must be such that the water will raise the oil to the required height.

The reservoir C must be replenished with oil from time to time, as required.

If the water-reservoir be made deep, the oil in use will not be maintained at about a uniform height in the oil-tube D.

I thus provide a table with a stationary lamp permanently connected therewith. The table can be moved from place to place as desired. The oil-reservoir holds oil enough for several days' consumption, and yet the oil will be maintained at about the same height in the oil-tube until it is nearly all consumed, thus furnishing a steady and uniform flame.

Chimneys and shades may be used with the burners, as usual.

My invention can be applied to desks substantially in the same manner as to tables; but the two reservoirs can be located in some part of the desk, the tubes being arranged and carried as may be most convenient.

The object of the trap or cut-off *d* is to prevent the escape of oil from the oil-reservoir up into the water-tank through the tube G, and is shown in my Patent No. 206,313.

The oil-reservoir may hold a gallon, which will be sufficient for several weeks' consumption.

What I claim as new, and desire to secure by Letters Patent, is as follows:

In combination with a table or desk, or other similar article, an oil-reservoir, C, a water-reservoir, F, and tubes D and G, substantially as and for the purpose specified.

THOMAS G. GOODFELLOW.

Witnesses:

E. A. WEST,
O. W. BOND.