

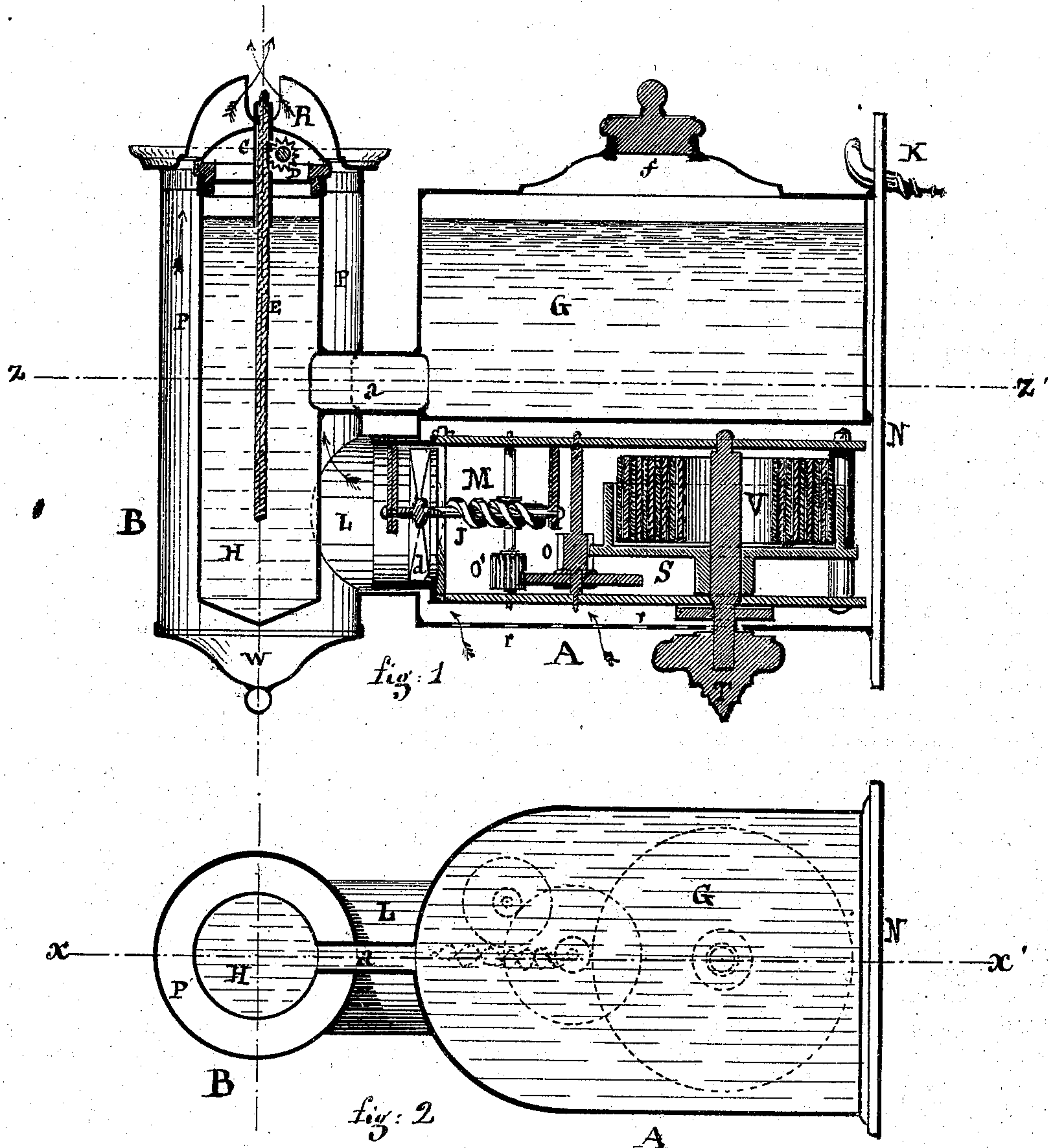
G.W. THOMPSON'S

improvements in

LAMPS.

No. 120,172.

Patented Oct. 24, 1871.



Witnesses.
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UNITED STATES PATENT OFFICE.

GEORGE W. THOMPSON, OF NEW YORK, N. Y.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. 120,172, dated October 24, 1871; antedated October 7, 1871.

To all whom it may concern:

Be it known that I, GEORGE W. THOMPSON, of the city of New York, in the county and State of New York, have invented certain Improvements in Lamps, of which the following is a specification:

This invention relates to that class of lamps known as atmospheric lamps, in which a mechanism is employed to force air to the point of combustion of the wick. The object I had in view in this case was to obtain a lamp for a bracket or hanging purpose, and to overcome the disadvantage of the ordinary atmospheric lamp for such purpose; and the nature of my invention consists in the combination and arrangement of a body in which is placed the oil-font and the mechanical movement, with a combustion-chamber separate and to one side of the body of the lamp, in which combustion-chamber is located the wick-tube, whereby a safe and perfect lamp is obtained.

Figure 1 represents a sectional elevation of my improved lamp cut through the line $x x'$, and Fig. 2 represents a horizontal section of the same cut through the line $z z'$ of Fig. 1.

The same letters indicate like parts in both figures of my drawing.

A is the body of the lamp, the upper part of which is occupied by the oil-font G, while the lower part, M, receives the train of wheels and spring for working the fan. S is the train of wheels, of any desired construction, and only illustrated here by the spring V, the wheels $o o'$, screw J, and fan d , for the sake of being understood. B is the combustion-chamber, in which the wick-tube H is located, leaving all around an annular air-passage, P. The oil-font G may be filled by any openings, in my drawing represented by f , and is connected to the wick-tube by the pipe a , which may be made of any desired length, to isolate the burner from the oil-font. C is the wick-bearer, and D the dented wheel for raising the wick E; all this constructed of any desired shape or pattern. L is a connecting air-tube between the annular space P of the combustion-chamber B, and the capacity M,

in which is to be located the movement and fan. N is a back-plate, which may be shaped as fancy or taste dictates, and K represents the hook upon which the lamp is supposed to hang. The movement S may have an ornamental key, T, stationary thereto, or it may be wound up by a removable key. At the lower part of the combustion-chamber B is provided a removable cup, W, in which will collect any dripping of oil which may take place from the outside of the wick-tube H; and at the upper part of the combustion-chamber B a suitable deflector, R, is placed, which has to be modified according to the shape or character of the wick employed, the oil which the lamp is intended to burn, or the purpose for which the lamp is to be employed.

By this arrangement of the oil-font G, the wick-tube H, the movement-chamber M, and the combustion-chamber B, connected by the tubes a and L. The point of combustion of the wick may be kept at any reasonable distance from the oil. The oil is always supplied to the wick in the most approved manner, and the mechanism, by being placed horizontally under the oil-font, does not obstruct the light as it does in all the other atmospheric lamps now in use.

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

1. An atmospheric lamp consisting of two essential parts, viz: The body in which the oil-font and mechanism are located, and the combustion-chamber, in which the wick-tube and air-passage are located, the whole connected, one with the other, by the tubes for the passage of oil and of air, substantially in the manner and for the purpose set forth.

2. The combination of the train of wheels, placed horizontally with the wick-tube placed vertically in a combustion-chamber, substantially in the manner and for the purpose specified.

GEO. W. THOMPSON. [L. S.]

Witnesses:

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