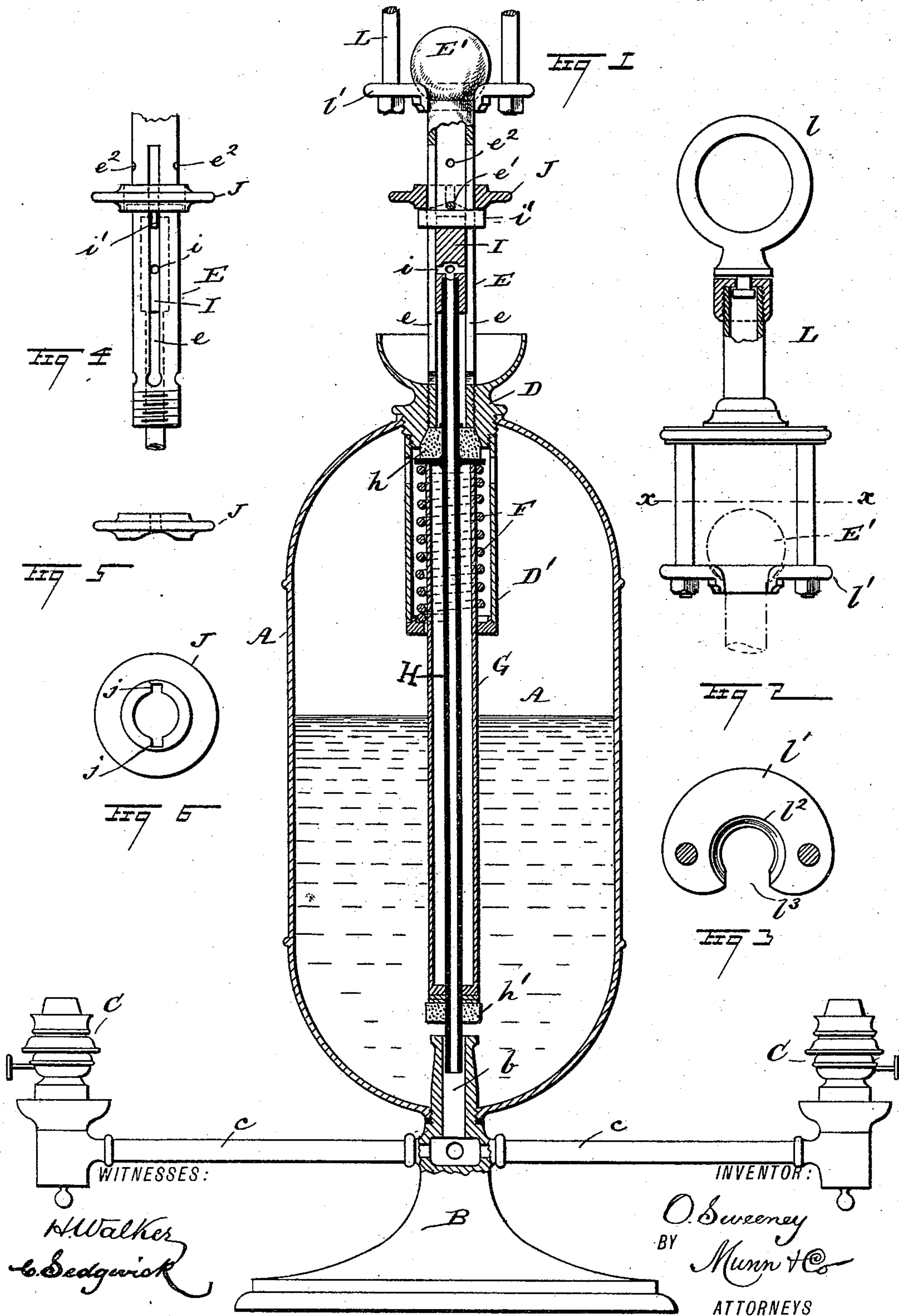


(No Model.)

O. SWEENEY.
LAMP.

No. 449,978.

Patented Apr. 7, 1891.



UNITED STATES PATENT OFFICE.

OLIVER SWEENEY, OF NEW YORK, N. Y.

LAMP

SPECIFICATION forming part of Letters Patent No. 449,978, dated April 7, 1891.

Application filed November 14, 1890. Serial No. 371,452. (No model.)

To all whom it may concern:

Be it known that I, OLIVER SWEENEY, of the city, county, and State of New York, have invented a new and Improved Lamp, of which the following is a full, clear, and exact description.

The present invention is an improvement on the lamp for which Letters Patent of the United States were granted to me on May 18, 1883, No. 277,808.

The object of the present invention is to provide an improved means of suspending the lamp and to improve the details of the construction with a view of adapting them to the means of hanging the lamp.

The invention consists in the novel construction and combination of parts, as hereinafter described, and defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a partly sectional elevation of a lamp embodying my improvements. Fig. 2 is a view of the hanger portion thereof. Fig. 3 is a horizontal section on line $x x$ of Fig. 2, and Figs. 4, 5, and 6 are detail views.

The oil-reservoir A of the lamp is secured to the base B, so that the upper end b of the base projects into the reservoir, the said upper end being axially bored for establishing communication between the reservoir and the supply-pipes c of the burners C. In the drawings only two burners are shown; but there may be any desired number. The upper end of the reservoir is provided with a screw plug or cap D, having a cup-shaped upper end and centrally bored to receive the tube E, which is united to the said cap by a threaded connection. From the lower end of the cap D extends the housing D' of a spiral spring F, which surrounds the casing G, which serves to space and maintain in proper position cork-valves $h h'$, carried by the rod H, the valve h being normally held to its seat by the spring F. The rod H extends at its lower end into the upper end of the base B for centering the said rod, and at its upper end it extends into a cap or socket I, that is loosely fitted within the tube E, and said rod H is preferably made hollow to admit air to the interior of the lamp. The tube E is formed

with vertical slots e , and the socket I is formed with transverse apertures i , the said apertures permitting air to readily enter the hollow rod H.

A loose collar J is fitted on the tube E for vertical movement thereon, and rests on the head or cross-bar i' of socket I, which cross-bar, when the collar J is forced downward to operate the valve-rod H, as hereinafter explained, will be guided in the slots e . A pin e' extends transversely across the tube E and projects beyond the same, and the collar J is formed with diametrically-opposite recesses j , which, when brought into lines with the pin e' , will permit the said collar to be moved downward, and with it the socket I and rod H, thus opening the valve h and closing the valve h' . A partial turn of the collar when brought below the pin e' will bring the recesses j out of line with the pin, and the collar will thus maintain the valve h open against the tension of spring F. An additional aperture i^2 may be provided for the pin i' , permitting the latter to be shifted in the event of changes in the tension of the spring. With the valve h thus held open oil directed to the cup-shaped cap D will find its way readily to the interior of the reservoir. This construction enables me to employ a hanger for the lamp without affecting the valve-operating devices, the latter being in the main the same as shown in my prior patent, hereinbefore referred to.

The suspension devices are as follows: The upper end of the tube E is formed with a spherical head E' , which is adapted to the hanger L. The hanger is provided with a ring l , or is otherwise suitably formed at its upper end for suspension from a hook or other device, and at its lower end l' is formed a concaved seat l^2 for the spherical head E' of the lamp, the side of the seat being open, as at l^3 , for the entrance of the tube E. With this construction the lamp, it is evident, when suspended, will always assume a vertical position, no strain will come on the valve-operating devices, and the internal parts may all be removed, together with tube E, by unscrewing the cap D.

As respects the action of the collar J on the socket I and rod H, the said socket and rod may be considered merely one valve-rod.

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

5 1. The combination, in a lamp, of an oil-reservoir, a valve-rod, a tube in which the upper end of said rod is received, the tube having a spherical head, and a hanger having a concave seat adapted to said head, substantially as described.

10 2. The combination, in a lamp, of an oil-reservoir, a rod working in the cap thereof and carrying a valve that effects a closure of said cap, a vertically-movable collar, and connections between the said collar and rod, substantially as described.

15 3. The combination, in a lamp, of an oil-reservoir, a cap therefor, a rod fitted in the cap for vertical movement and having a valve closing said cap, a spring normally acting to hold said valve to its seat, said spring being

held within a housing carried by said cap, a vertically-movable collar, and connections between the said collar and rod, substantially as described.

4. The combination, with an oil-reservoir 25 provided with a cap and a base having its upper end projecting in the reservoir, of a slotted tube secured in the cap and provided with a pin, a rod provided with a valve for closing the cap and with a valve on its lower 30 end for closing the base, a cap secured to the rod and located in the said tube and provided with a cross-bar working in the slot of the tube, and a collar on the tube and provided with recesses, substantially as herein shown 35 and described.

OLIVER SWEENEY.

Witnesses:

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