

No. 633,246.

Patented Sept. 19, 1899.

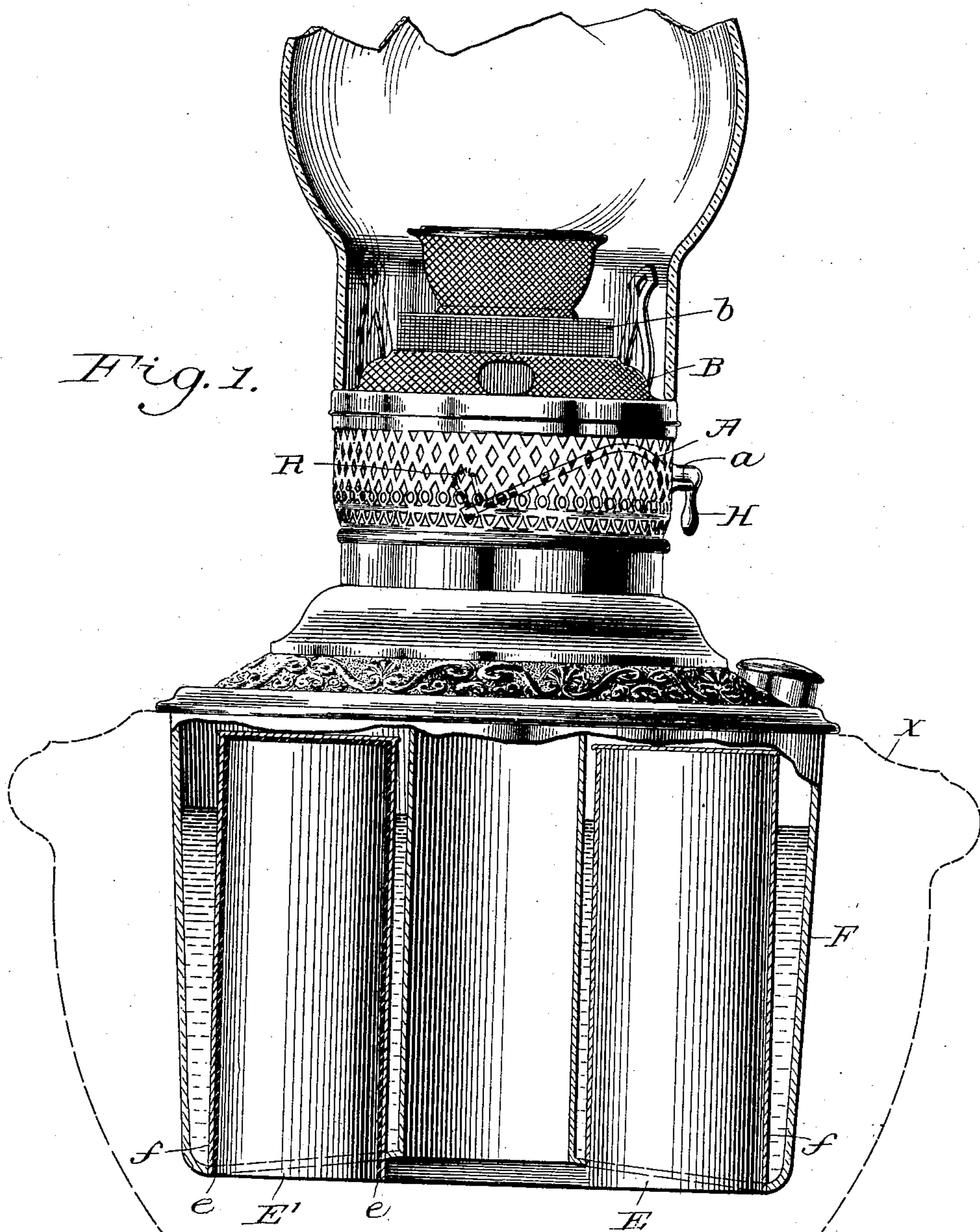
S. M. MEYER.

DEVICE FOR LIGHTING LAMPS BY ELECTRICITY.

(Application filed Nov. 30, 1898.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

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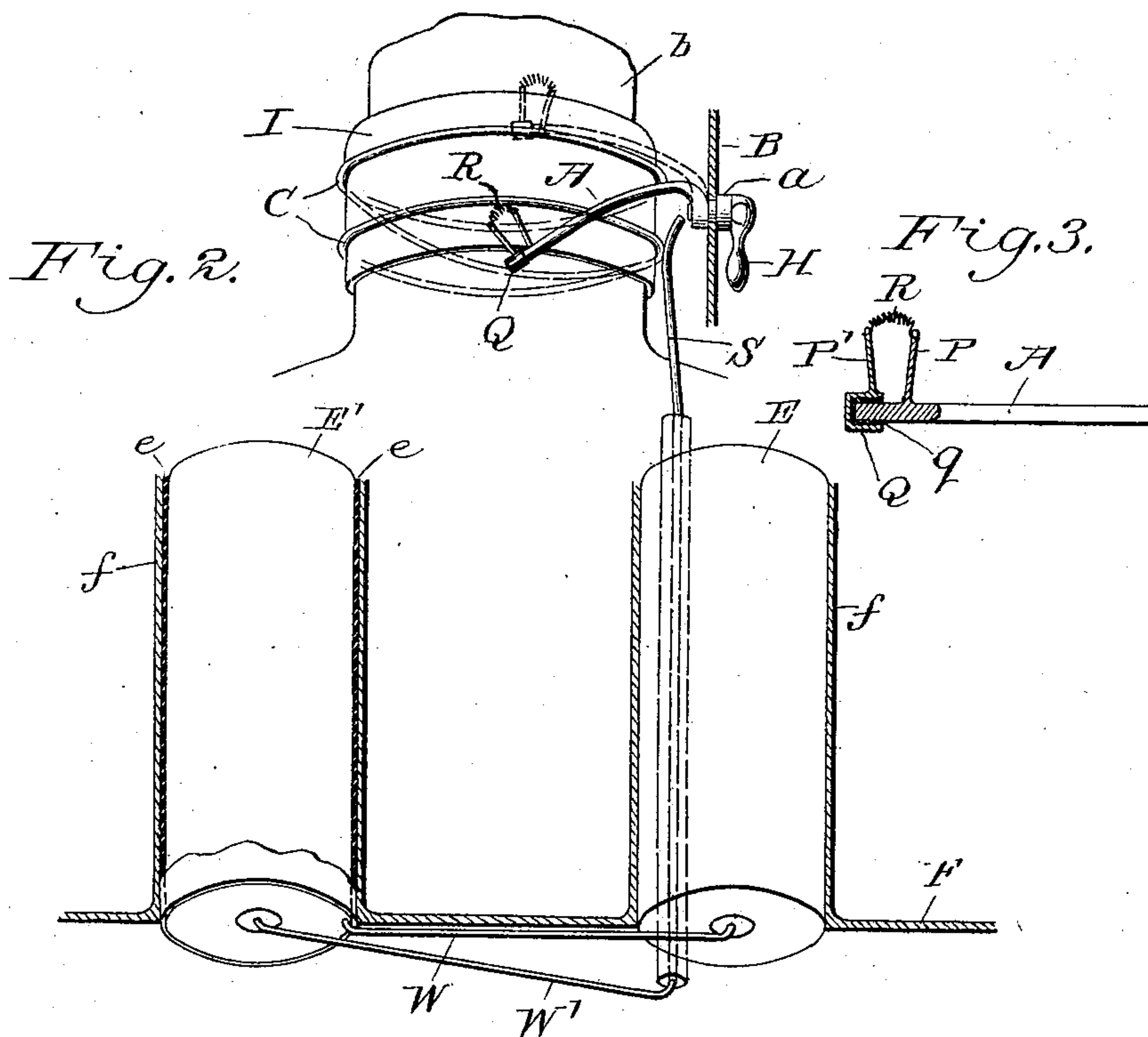
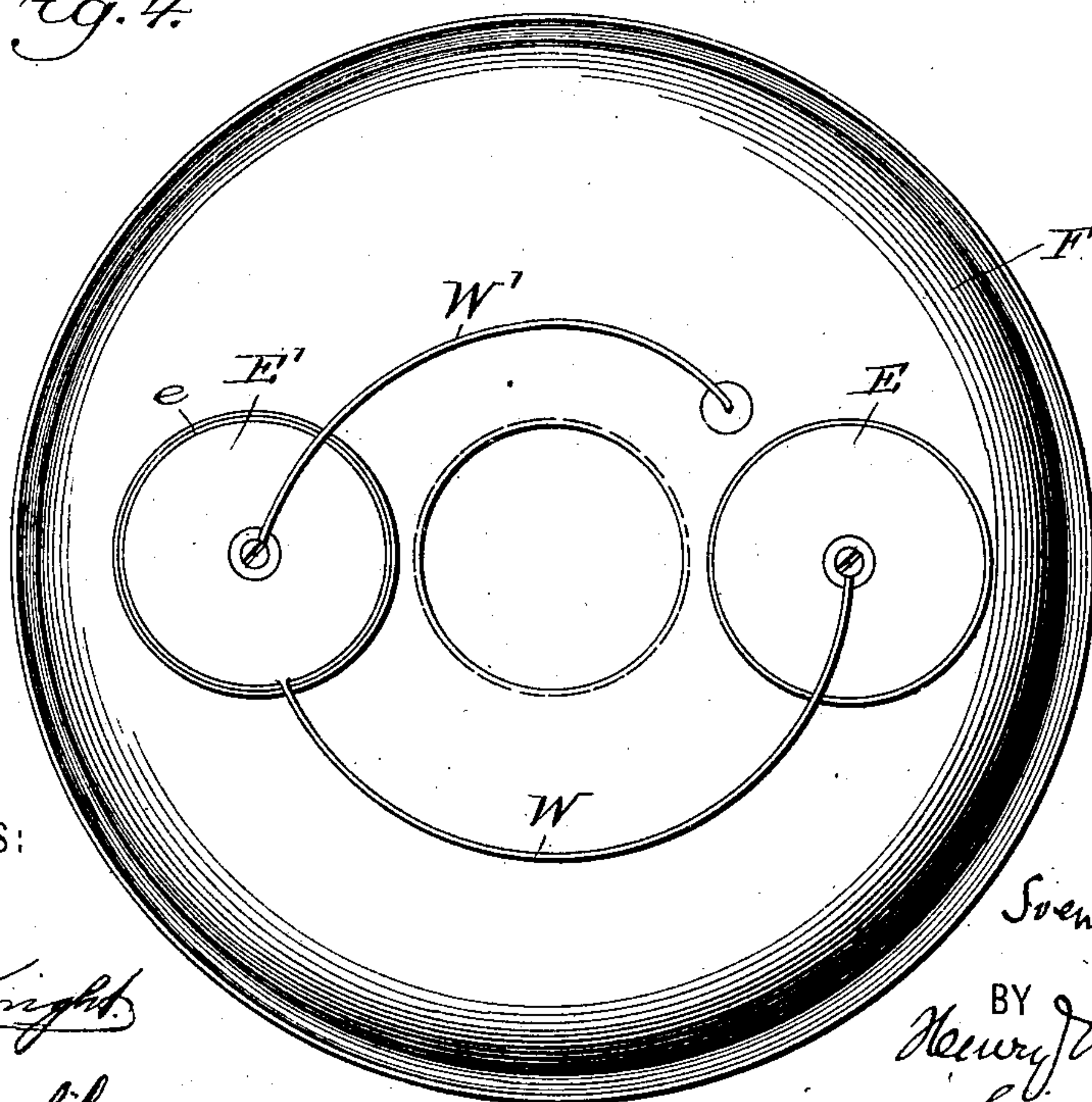


Fig. 4.



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SVEND MARTIN MEYER, OF NEW YORK, N. Y.

DEVICE FOR LIGHTING LAMPS BY ELECTRICITY.

SPECIFICATION forming part of Letters Patent No. 633,246, dated September 19, 1899.

Application filed November 30, 1898. Serial No. 697,864. (No model.)

To all whom it may concern:

Be it known that I, SVEND MARTIN MEYER, a subject of the King of Denmark, and a resident of the city of New York, State of New York, have invented a new and useful Improvement in Devices for Lighting Lamps by Electricity, of which the following is a specification.

In the practical adaptation of electrical lighting devices for igniting oil-lamps it has been the custom to mount a battery or source of electricity in the stand or frame of the lamp with conductors detachably connected with the lamp proper, so as to permit the removal of the fount and burner from the lamp stand or frame. Where, as is most commonly the case, there is a removable fount, this renders necessary a system of either automatic or specially-manipulated connections to provide communication with the battery when the fount is placed in position. Hence in order to fit up lamps already in use it is generally necessary to construct a new and specially-constructed base and to provide a special passage through the base or frame to the interior of the shell in which the fount is set. These necessities have rendered difficult and expensive the practical application of the electric-lighting system to oil-lamps.

The object of my present invention is to provide a complete electrical lighting device mounted in the removable lamp-fount, so as to be entirely independent of the stand or frame in which the lamp may be mounted.

In the accompanying drawings, Figure 1 is an elevation, partly in section, of a center-draft lamp illustrating my invention. Fig. 2 is a perspective view of the electric-lighting device and its accessories. Fig. 3 is a detail sectional view of part of a manually-operated electric-lighting device hereinafter described. Fig. 4 is a bottom view of the removable lamp-fount, showing batteries inserted in recesses therein.

X may represent the stand or base, and F the removable fount, of a center-draft lamp. In the bottom of the said fount I provide recesses or sockets *ff* for the reception of battery-cells E E', one of which, E, may be in electrical connection with the metal of the

fount F, while the other, E', is contained within an insulating-covering *e*. A conducting-wire W connects the carbon of the battery-cell E with the zinc of the insulated battery-cell E', and from the carbon member of the insulated battery-cell E' is carried an insulated conducting-wire W', terminating in a contact-spring S, which bears with sufficient pressure against a wire coil C, surrounding the neck of the removable lamp-burner B, so that the simple placing of the lamp-burner in position will effect electric connection between the conducting-coil C and the contact-spring S, connected with the conducting-wire W'. The conducting-coil C is insulated from the lamp-burner by a band I of mica or other suitable insulating material. *b* may represent a lamp-wick.

For closing the electric circuit and at the same time bringing the lighting device into proximity with the lamp-wick I employ a rocking arm A, pivoted at *a* in the shell of the lamp-burner and thrown upward by means of an external handle H, attached to the fulcrum-pivot of the said arm A.

For the purpose of a resistance-conductor to produce the electric-lighting effect I prefer to employ a coil R of platinum wire, attached at its respective ends to posts P and P', the first of which is in direct metallic contact with the rocking arm A, while the second post P' is mounted on a cap Q, attached mechanically to the arm, but insulated therefrom by a suitable insulating material *q*. The upward movement of the arm A to the position shown in dotted lines brings the insulated cap into contact with the coil C, thus closing the circuit through the resistance-coil R and rendering it incandescent, and the same movement having brought the said resistance-coil into close proximity with the lamp-wick the lamp is instantly ignited by the incandescent coil. As soon as the handle H is released the arm A drops by gravity, breaking the electric circuit and removing the coil R from the flame, so as to protect it from injury. It will also be seen that in the normal position of the arm A while it is at rest the coil R is completely shielded within the shell of the lamp-burner, so as to protect it from mechanical injury.

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

- 5 1. The lamp-fount F constructed with suitable recesses or chambers *f* in combination with batteries E, E', inserted therein and a manually-operated electric-lighting device carried by the lamp and connected with said batteries, substantially as set forth.
- 10 2. The combination of the lamp-fount F constructed with one or more recesses *f*, a base or stand X supporting said fount, a burner B mounted on the fount, one or more batteries E E' inserted in the recesses *f* suitable conductors W W' and a manually-operated circuit-closing device carrying an ignit-
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ing device R which is brought into proximity with the burner-wick in the circuit-closing movement, substantially as described.

- 20 3. The combination of the stand or base X, the removable fount F constructed with one or more recesses *f*, the lamp-burner B, one or more batteries E E' inserted in the recesses *f*, suitable conductors W W' C, contact-spring S, and manually-operated circuit-closing device A carrying an igniting device R, substantially as and for the purposes set forth.
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Witnesses:

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