

(No Model.)

W. F. JOBBINS.

ELECTRIC LAMP.

No. 270,806.

Patented Jan. 16, 1883.

FIG. 1.

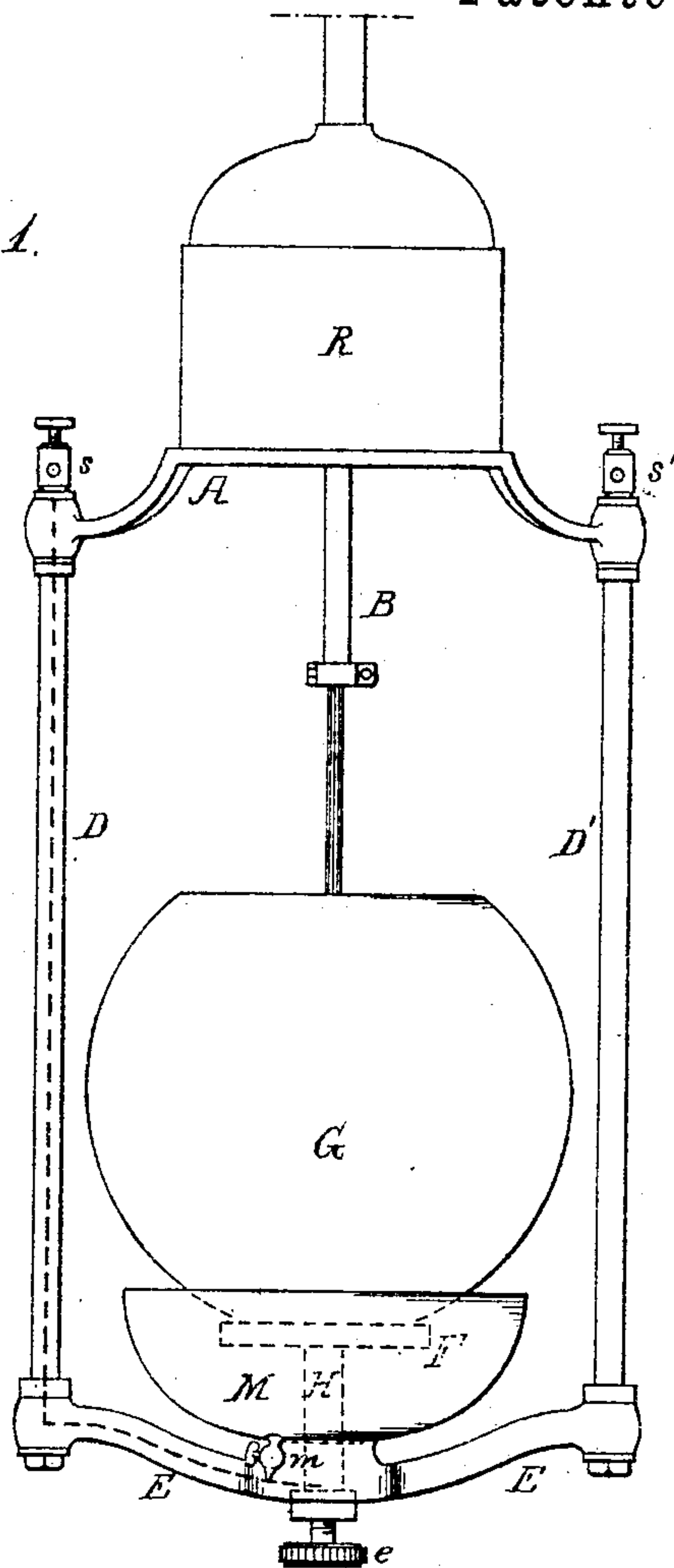
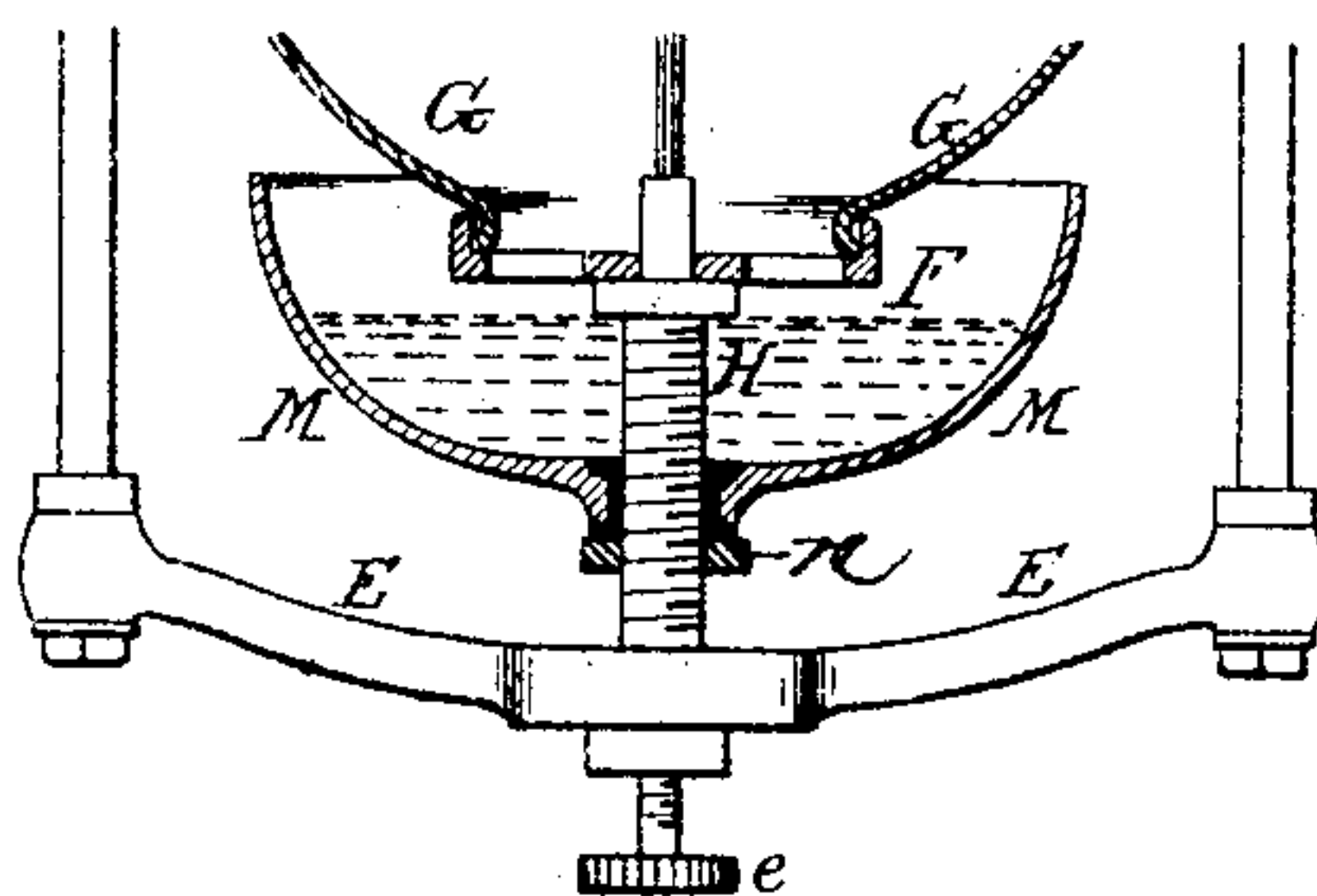


FIG. 2.



Witnesses
James F. Tobins
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W. F. Jobbins
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UNITED STATES PATENT OFFICE.

WILLIAM F. JOBBINS, OF EAST ORANGE, NEW JERSEY.

ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 270,806, dated January 16, 1883.

Application filed October 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. JOBBINS, a citizen of the United States, and a resident of East Orange, Essex county, New Jersey, have
5 invented an Improvement in Electric Lamps, of which the following is a specification.

The main object of my invention is to so construct an electric lamp as to prevent the red-hot particles given off by the carbons when
10 ignited from escaping from the lamp and doing damage by setting fire to combustible material near the lamp; and this object I attain by providing a transparent receptacle below the open bottom of the ordinary globe, which receptacle
15 preferably contains water to extinguish the ignited particles, and at the same time not interfere with the rays of light downward from the carbons.

In the accompanying drawings, Figure 1 is
20 a side view of my improved lamp, and Fig. 2 a sectional view of a modification.

My invention may be applied to almost any of the different forms of electric lamps provided with globes more or less open at the bot-
25 tom, and in the drawings I have shown it as applied to a well-known form of lamp, in which A is the upper cross-bar of the lamp frame, carrying the feeding and regulating devices R for the movable carbon-holder B.

30 D D' are the vertical side bars, and E the lower cross-bar, which carries the stationary carbon-holding tube H. On this tube H is fixed the support F for the globe G, within which the carbons burn.

35 Immediately below the bottom of the globe I arrange a cup-shaped receptacle, M, of glass or other suitable transparent material capable of holding a liquid.

In some cases the cross-bar E may be made
40 of glass, and the receptacle M made in one piece therewith or directly secured thereto, as indicated in Fig. 1; and I also prefer to make the electrical connection between the holder H of the negative carbon and the exit binding-post s through the medium of an insulated
45 wire passing, as shown by dotted lines, through the interior of the side bar, D, and the cross-piece E, which are both made hollow or grooved for that purpose, so that neither of the side

bars, D D', which are so often laid hold of, 50 shall be in the circuit. Another advantage of making the cross-bar E as well as the receptacle M of transparent material is that in such case the downward rays of light from the carbons are interfered with to the smallest extent 55 possible with such a form of lamp. In some cases the side bars, D D', also may be made of glass or other transparent material.

Instead of securing the receptacle M to the cross-piece E, it may be secured to the holder 60 H by providing the receptacle with a threaded thimble adapted to a screw-thread on the holder H, as shown in Fig. 2, the receptacle being retained at the desired height by a jam-nut, n. I prefer to provide the receptacle with a valved 65 outlet, m, for the liquid.

I am aware that electric lamps have heretofore been so constructed as to prevent the escape of the red-hot particles of carbon from the lamp, and I therefore do not desire to 70 claim such a construction, broadly; but

I claim as my invention—

1. The combination of the globe of an electric lamp, having an opening at the lower end, with a receptacle, M, immediately below said 75 opening.

2. The combination of the globe of an electric lamp, having an opening at the lower end, with a water-receptacle, M, of transparent material, below said opening. 80

3. An electric lamp having a globe open at the lower end, a transparent water-receptacle, M, and transparent lower cross-bar, E.

4. An electric-arc-lamp frame having its side bars made of transparent non-conducting material, as and for the purpose set forth. 85

5. An electric-arc-lamp frame having its side bars and bottom piece made of transparent non-conducting material, substantially as and for the purpose set forth. 90

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM F. JOBBINS.

Witnesses:

WARREN P. FREEMAN,
SAMUEL M. QUINN.