(No Model.) 2 Sheets—Sheet 1.

T. E. ADAMS.

COMBINED GLOBE HOLDER AND ASH PAN.

No. 568,223. Patented Sept. 22, 1896.

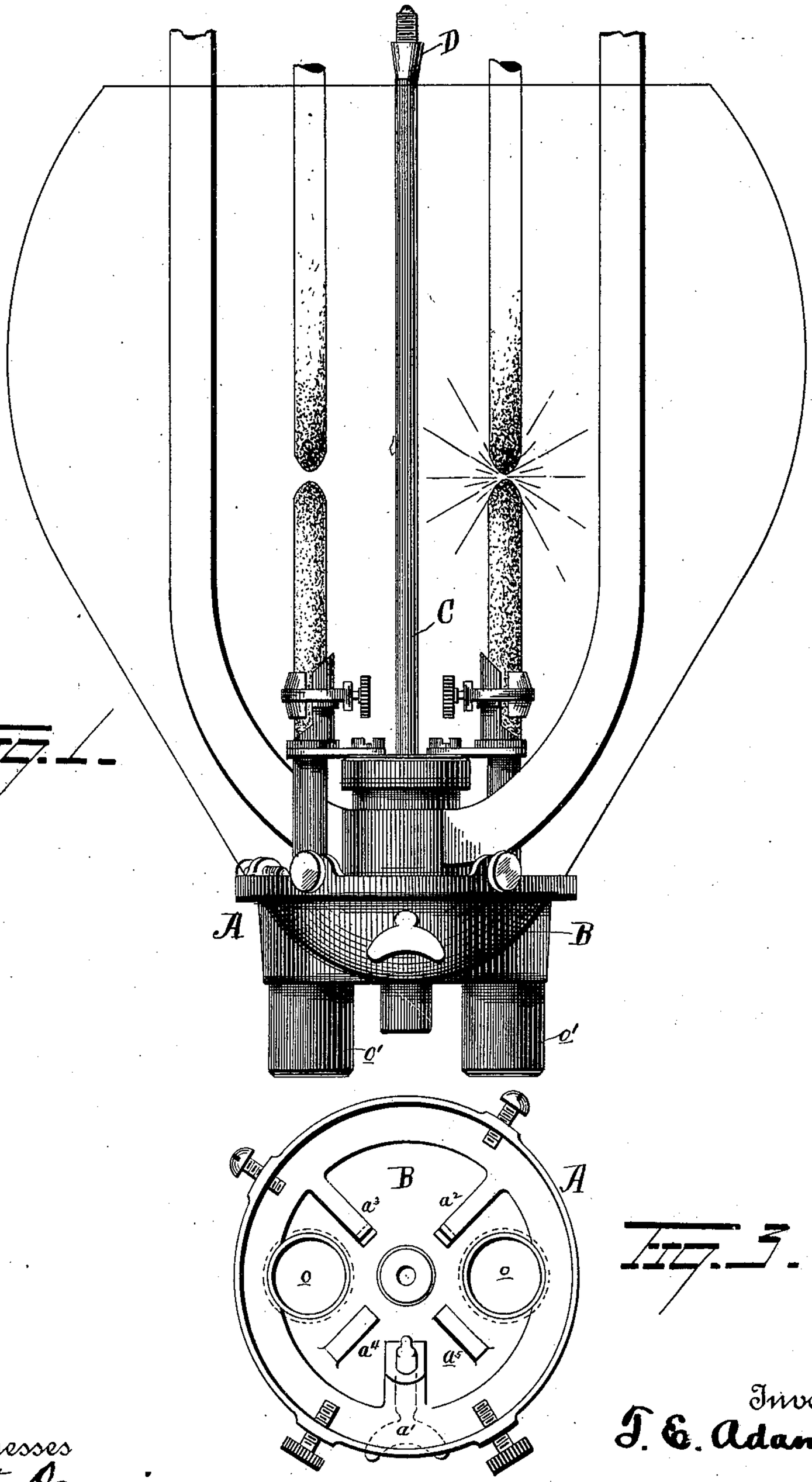

FIG. 1.

FIG. 3.

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Fig. 2.

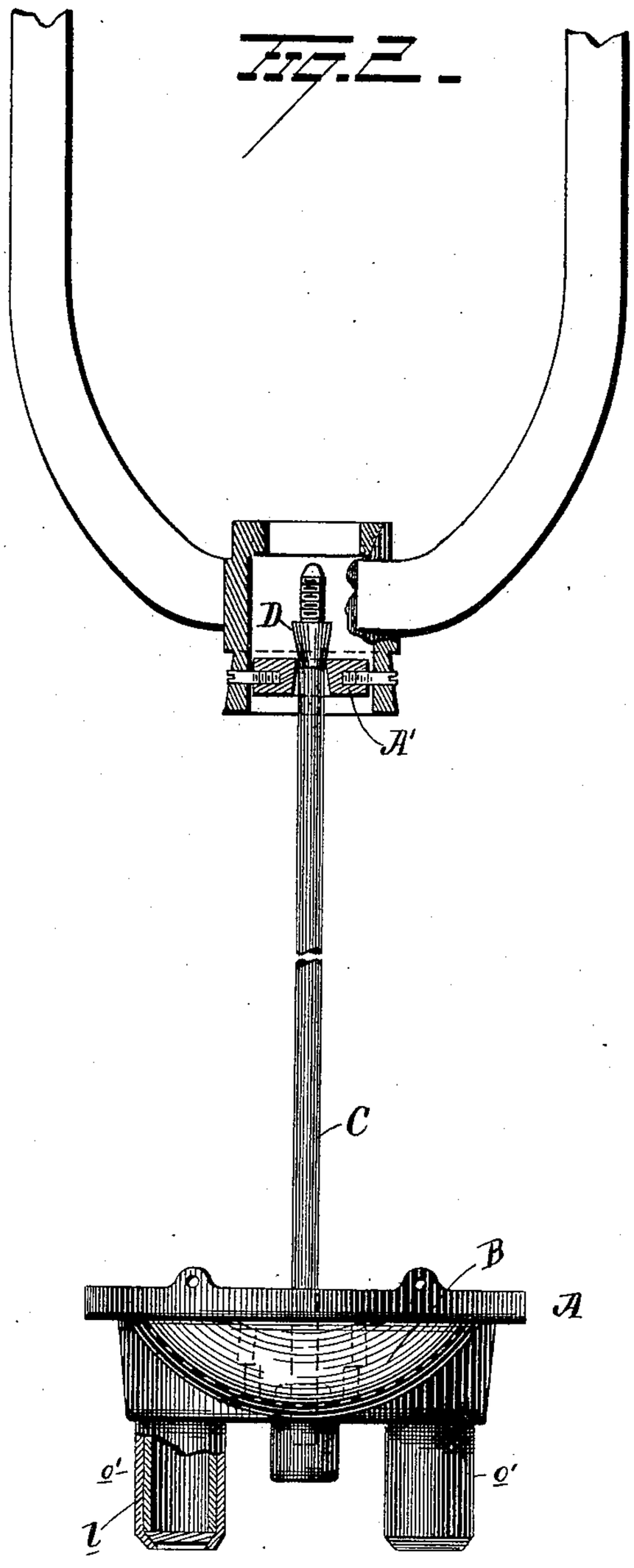
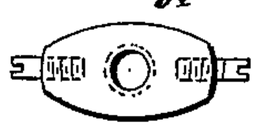


Fig. 4.



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UNITED STATES PATENT OFFICE.

THOMAS E. ADAMS, OF CLEVELAND, OHIO, ASSIGNOR TO THE BRUSH ELECTRIC COMPANY, OF SAME PLACE.

COMBINED GLOBE-HOLDER AND ASH-PAN.

SPECIFICATION forming part of Letters Patent No. 568,223, dated September 22, 1896.

Application filed April 6, 1895. Serial No. 544,822. (No model.)

To all whom it may concern:

Be it known that I, THOMAS E. ADAMS, a resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in a Combined Globe-Holder and Ash-Pan; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in combined globe-holders and ash-pans for electric-arc lamps, the object of the invention being to produce a combined globe-holder and ash-pan which shall be so constructed as to render the trimming of the lamp convenient, and which shall be dirt and ice proof.

A further object is to produce a combined globe-holder and ash-pan which shall be simple in construction, easy to manufacture, and effectual in all respects in the performance of its functions.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view illustrating my improvements applied to a double-carbon lamp. Fig. 2 is a view showing the holder in its dropped position. Figs. 3 and 4 are detail views.

In Fig. 1 is represented the lower portion of a double-carbon-lamp frame with the globe-holder and ash-pan A B in place. The holder is secured in this position by a screw a' and ribs a^2 and a^3, Fig. 3, engaging the lower portion of the lamp-frame at three points and steadied also by ribs a^4 and a^5 of same height as the notch in ribs a^2 and a^3. The object of these ribs is to prevent sleet attaching the globe-holder to the frame as strongly as would be the case did greater surfaces come together. The lower portion of the frame is finished to be slightly larger at the bottom, (see Fig. 2,) and the ribs a^2 a^3 a^4 a^5 are finished to match, thus insuring a firm and good fit of the parts. Openings *o o*, Fig. 3, may be closed with removable drop-tubes o', these tubes being lined with insulating material *l*, Fig. 2.

A rod C is fixed rigidly to the combined globe-holder and ash-pan and passes upwardly through a perforation in the lamp-frame guide A′ between the lower carbons of the lamp, the perforations for the accommodation of said rod being somewhat larger than the rod, so as to permit the free passage of the latter therethrough. The rod C is of sufficient length to extend upwardly about thirteen inches, or to about where the arc would be first formed, when the parts are in their normal position. To the top of the rod C a conical lug or head D is screwed, which lug or head is of larger diameter than that of the perforation *f*, through which the rod passes.

When the set-screw a' is loosened, the globe and globe-holder can be lowered a distance equal to the length of the rod C, and in its lowered position will be supported by the nut D, resting on guide-piece A′, the globe and globe-holder being thus suspended, allowing the attendant to work in the lamp without giving any attention to the globe. The rod C also performs another important function, and, in fact, its principal use is to conduct heat from the arc to the globe-holder, which in turn is heated, and the accumulation of ice in the globe-holder will be prevented by reason of the heat conveyed thereto.

My improvements are also adaptable to a single lamp, and when thus applied two rods C will preferably be employed.

My improvements are simple in construction in the performance of their functions.

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

1. In an electric-arc lamp, the combination with the carbons and a globe-holder, of a rod secured to the globe-holder independently of the holders of said carbons, said rod being so disposed as to receive heat from the arc formed between the carbons and conduct it to the globe-holder, substantially as set forth.

2. In an electric-arc lamp, the combination with a globe-holder, of a rod attached thereto and normally extending upwardly sufficiently

near the arc to receive heat therefrom and adapted to conduct heat to the globe-holder, said rod also serving to support the globe and globe-holder when the same are lowered during the operation of trimming the lamp, substantially as set forth.

3. In an electric-arc lamp, the combination with a combined globe-holder and ash-pan, of a rod secured thereto and extending upwardly therefrom through the lamp-frame, said rod serving to conduct heat from the arc to the said combined globe-holder and ash-pan and to support the same when lowered during the trimming of the lamp, substantially as set forth.

4. In an electric-arc lamp, the combination with a frame having a perforation therein, of a globe-holder, a rod secured to the globe-holder and passing loosely through said perforation, said rod normally extending to a point in proximity to the arc and adapted to conduct heat to the globe-holder, and a lug or head at the top of said rod larger than the perforation in the frame, substantially as set forth.

5. In an electric-arc lamp, the combination with a frame having a perforation, of a globe-holder, a rod secured to said holder and passing upwardly through said perforation, said rod normally extending to a point in proximity to the arc and adapted to conduct heat to the globe-holder, and a removable conical head at the upper end of said rod, substantially as set forth.

6. In an electric lamp, the combination with a frame, having an opening with a guide loosely secured therein, of a globe-holder, a set-screw passing through the wall of said globe-holder and engaging the lamp-frame, ribs on said globe-holder engaging the lamp-frame, a rod secured to said holder and passing loosely through said lamp-frame and guide, and a head at the upper end of said rod, substantially as set forth.

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

THOMAS E. ADAMS.

Witnesses:
A. D. DORMAN,
A. H. HOUGH.