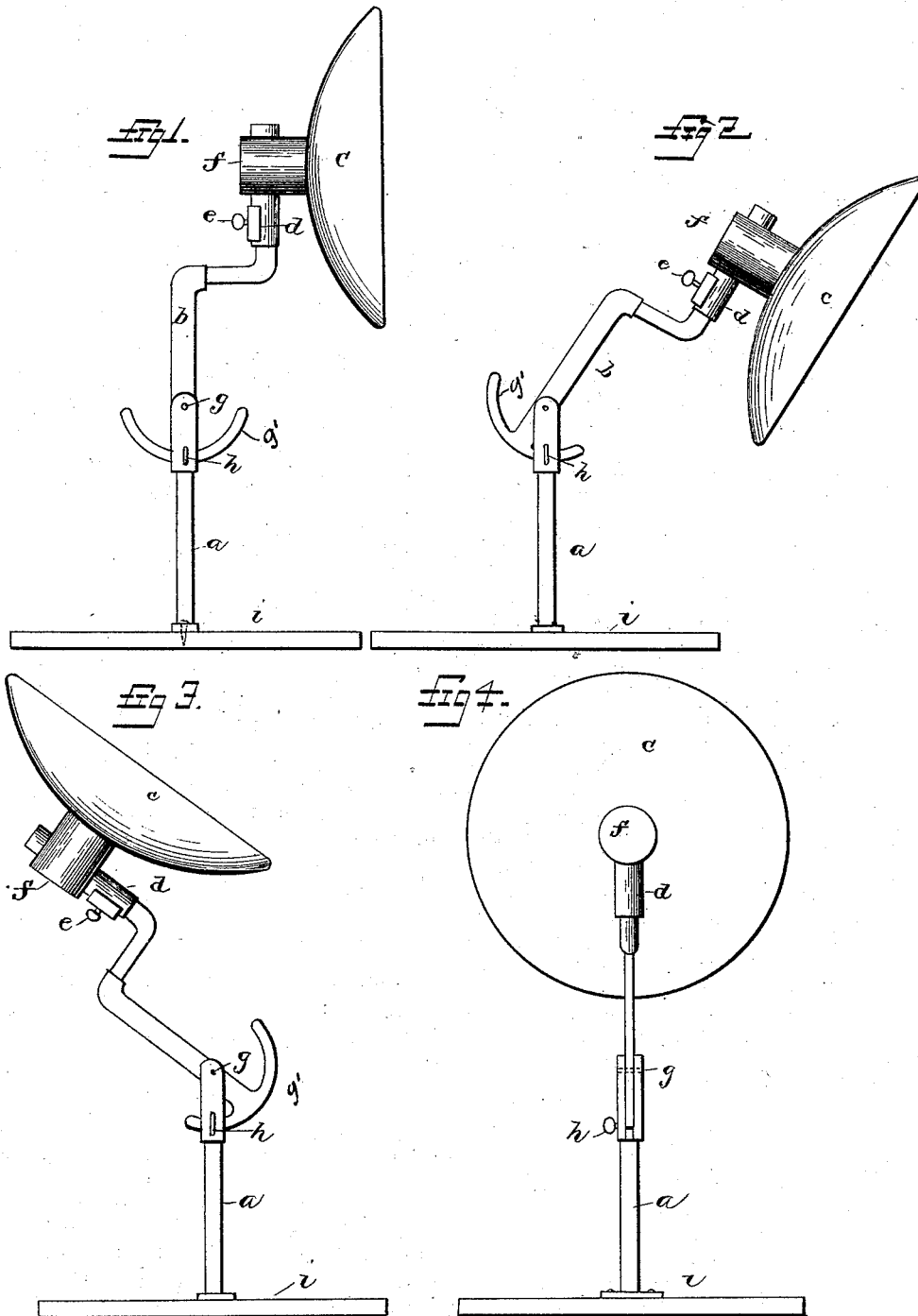


(No Model.)

W. F. WILCOX.
ADJUSTABLE REFLECTOR AND HOLDER.

No. 423,100.

Patented Mar. 11, 1890.



Witnesses

H. A. Daniels

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UNITED STATES PATENT OFFICE.

WILLIAM F. WILCOX, OF TIPTON, INDIANA.

ADJUSTABLE REFLECTOR AND HOLDER.

SPECIFICATION forming part of Letters Patent No. 423,100, dated March 11, 1890.

Application filed November 2, 1889. Serial No. 329,095. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. WILCOX, a citizen of the United States, residing at Tipton, in the county of Tipton and State of Indiana, have invented certain new and useful Improvements in Lamp-Reflectors and Reflector-Holders, of which the following is a description.

My invention relates to improvements in lamp and gas light adjustable reflectors and holders; and the object of the invention is to adjust the reflector to any desired angle or plane which may be necessary to obtain light at any desired point.

To this end the invention consists in the novel construction and combination of parts, as will be hereinafter more fully described, and specifically pointed out in the claim.

In the accompanying drawings, to which reference is had, and which fully illustrate my invention, Figure 1 represents a side view of my invention in a vertical position. Fig. 2 is a side view showing the inclination of the holder and the proper adjustment of the reflector to obtain a downward reflection of the light. Fig. 3 shows a similar view with the inclination and adjustment to obtain an upward reflection of light, and Fig. 4 is a back view showing the bifurcation in the upper end of the standard.

Similar letters of reference indicate corresponding parts in the several figures.

In the drawings, *a* designates a standard or support, which is bifurcated at its upper end, and to which is pivotally connected an adjustable holder *b*, carrying a reflector *c*. To this adjustable holder the reflector *c* is so connected that it can be elevated, lowered, or rotated thereon and adjusted to the proper inclination relatively to the holder as to reflect the light at any angle.

d is a hollow tube extending upwardly through a projection *f*, secured to the rear of the reflector *c*. At the lower end of the hollow tube *d* is a set-screw *e*, by which the reflector is vertically adjusted. The hollow tube *d* telescopes over the upper part of the holder *b*, upon which it has a vertical and rotary movement, and can be firmly held or adjusted at any desired point by the set-screw *e*, as shown in Figs. 1, 2, and 3 of the

drawings. This movable or adjustable holder *b*, which is pivotally secured to the standard *a*, as at *g*, can be fixed or adjusted laterally at any angle within a bifurcation in the upper part of the standard *a*, the lower part of the holder being provided with a segment *g'*, against which a set-screw *h* bears and firmly holds the holder in a fixed position. When the reflector *c* is secured to the holder *b*, as herein described, it can by means of the inclination of said holder be so adjusted with reference to the source of light as to reflect the light at any angle desired, upward or downward, or upon any point or object within the range of said reflector.

The advantages of my device are that if it is desired to reflect the light upward and sidewise or downward and sidewise without changing the position of the source of light it can be done by means of the inclination of the holder *b* and the proper adjustment thereon of the reflector *c*.

The standard *a* is secured to the base *i* by means of screws or by any other suitable means of fastening. It may also be secured to a table, desk, wall, bracket light, or other appropriate objects.

I am aware that prior to my invention reflectors have been made by means of which angular and vertical adjustments of the reflector were secured; but I am not aware that the construction and combination exhibited by my device have ever been made or used.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the base *i* and standard *a*, having the set-screw *h*, and pivot *g*, and holder *b*, having its lower end terminating in a segment *g'*, of the reflector *c*, provided with the perforated projection *f*, and hollow tube *d*, provided with the set-screw *e*, all arranged and operated as and for the purposes set forth.

In testimony whereof I have hereunto set my hand.

WILLIAM F. WILCOX.

Witnesses:

NATHAN H. ALLEN,
THOS. M. BUTLER.