

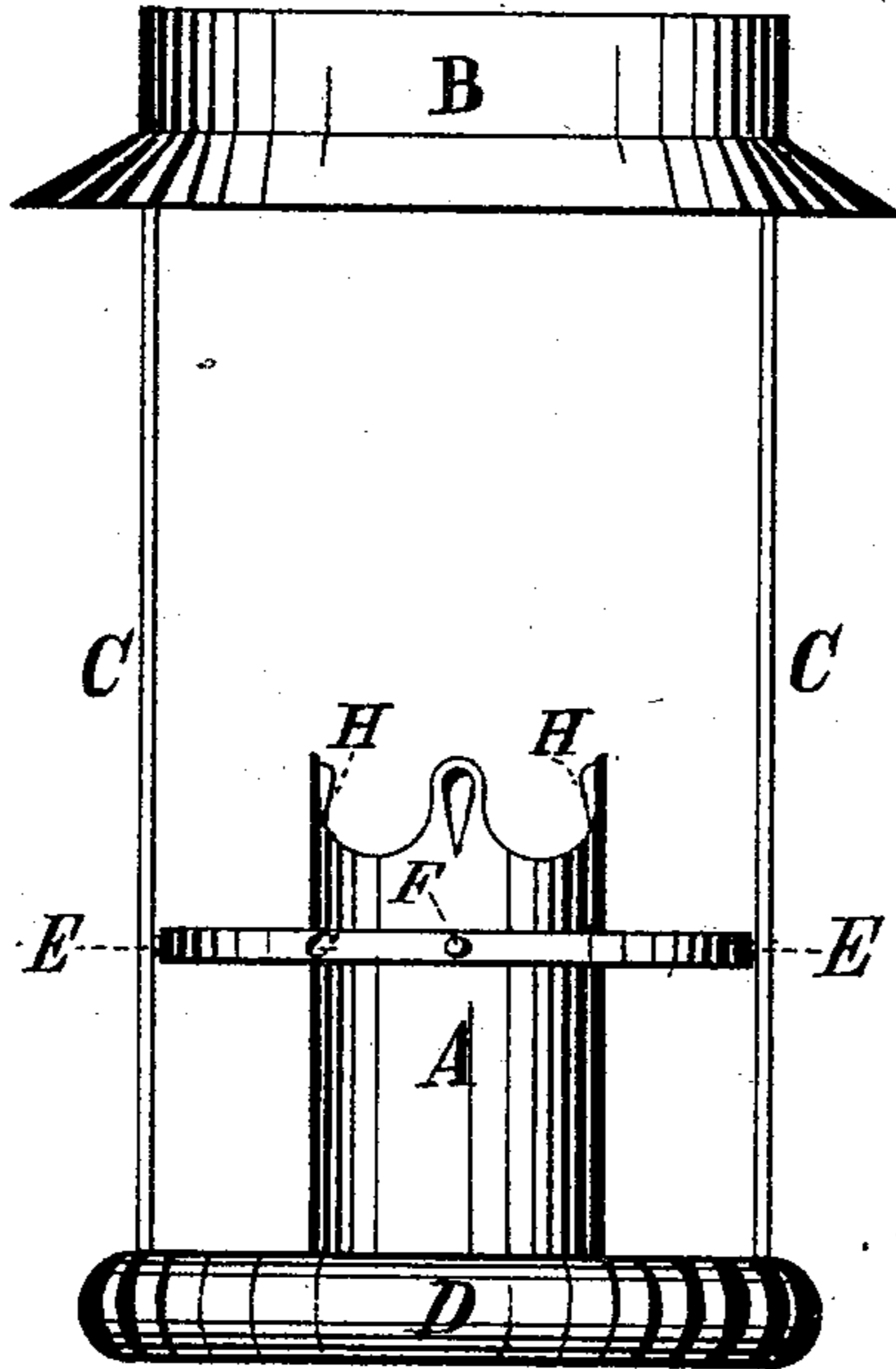
(No Model.)

R. W. MORGAN.  
CANDLE SHADE HOLDER.

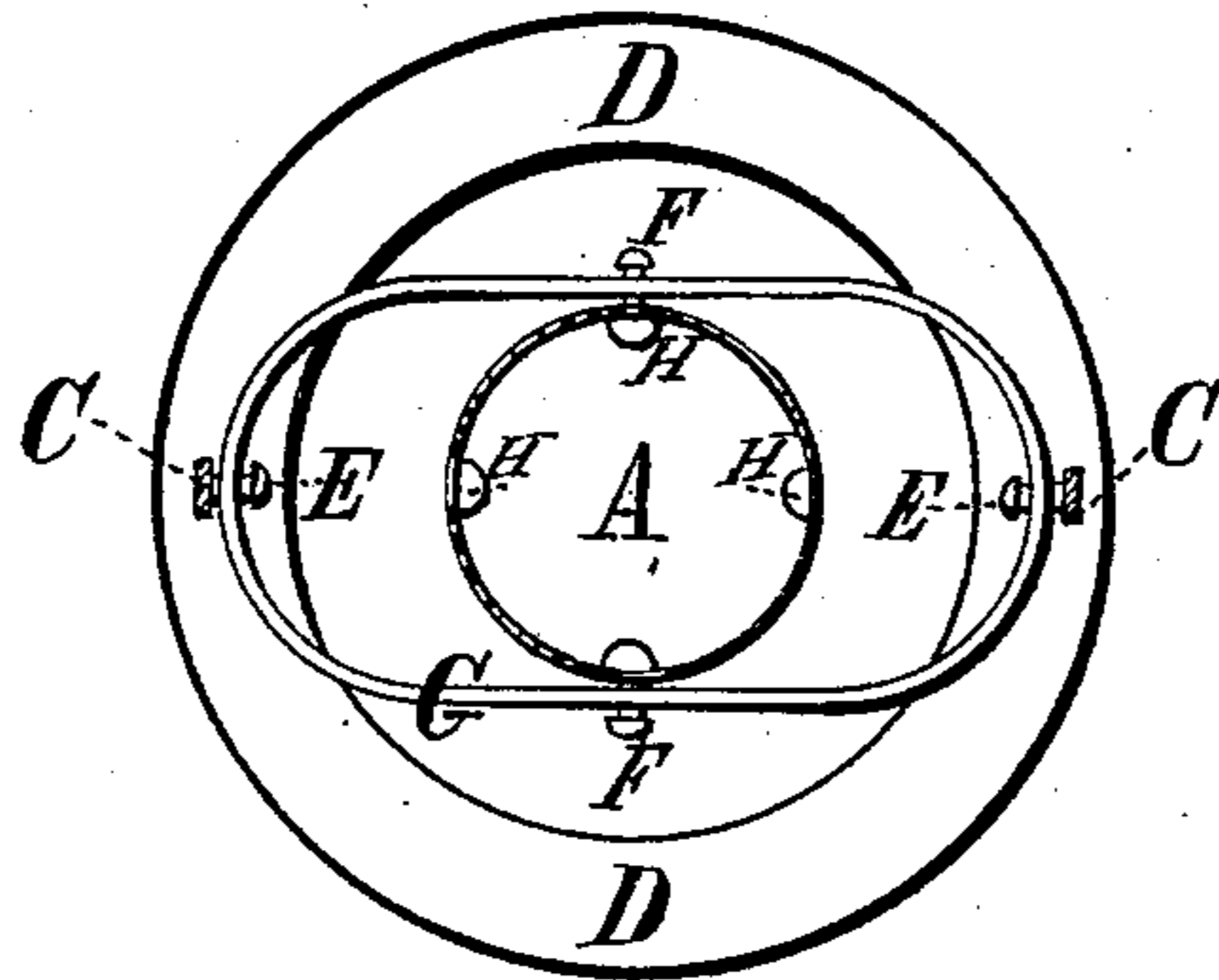
No. 521,726.

Patented June 19, 1894.

*Fig. 1.*



*Fig. 2.*



*Witnesses.*

*Geo. Kraitsinger*  
*John Hard*

*Inventor.*

*Robert Webb Morgan.*

# UNITED STATES PATENT OFFICE.

ROBERT WEBB MORGAN, OF NEW YORK, N. Y.

## CANDLE-SHADE HOLDER.

SPECIFICATION forming part of Letters Patent No. 521,726, dated June 19, 1894.

Application filed December 28, 1893. Serial No. 494,933. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT WEBB MORGAN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a new and useful Candle-Shade Holder, of which the following is a specification.

My invention relates to improvements in candle shade holders which as the candle burns away maintain their relative position to the flame automatically, or by the force of gravity; and the objects of my improvement are, first to provide a candle shade holder the weight or pressure of which on the candle will be at all times vertical or in a direction nearly parallel to the sides of the candle thereby avoiding a tendency to bend the heated candle; and second, to secure a universally horizontal position of the rim carrying the shade. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1, is a side elevation of the entire device; and Fig. 2, a top view of the device as it appears after the removal of the rim B, Fig. 1.

Similar letters refer to similar parts throughout both views.

A is a sleeve or cap fitting loosely over the candle and having the points or lugs H, H, or other suitable device to rest on or near the top or burning end of the candle so that as the candle burns away, the device dropping by its own gravity maintains its relative position to the flame.

B is a rim on which the shade rests.

C. C. are supports to the rim B, pivoted at E. E. to the parts G., and having at their lower end a weight or weights D preferably of an annular form and of sufficient weight to overbalance the parts above the pivots. The part G, preferably of an elliptical form, is also pivoted at F. F. to the sleeve A and with the pivots E. E. F. F., forms a universal joint connecting the rim B, uprights C. C. and weight D, to the sleeve A in such a manner as to permit of an uneven movement of the sleeve A, due to the unequal burning of the candle, without disturbing the equilibrium of the rim B which is maintained in a horizontal position by the weight D acting upon

the pivots E. E. F. F. as a fulcrum. The weighty parts of the device being connected to the sleeve A by the universal joint E. E. F. F. G., the center of gravity will be along a vertical line passing through the point of intersection of two lines connecting the pivots E. E. and F. F. which is coincident with the center of the candle. The pressure is therefore always vertical, thus avoiding the tendency to bend the heated candle. The weight at the lower end of the side supports is removed from the vertical plane of the sides of the candle and performs the double function of causing the sleeve to descend as the candle is consumed and to overbalance the weight of the shade support, whereby the latter is maintained in position, even though the candle may bend or tilt.

I do not confine myself to the rim B as a means of sustaining the shade, which may be sustained by arms or other device attached to the part carrying the weight or to the weight itself.

I am aware that prior to my invention candle shade holders have been made to drop automatically as the candle burns. I therefore do not claim such a device, broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. A candle shade holder consisting of the sleeve adapted to fit over the candle and the ring to which, at opposite sides thereof, the said sleeve is freely pivoted, combined with the side supports freely pivoted above their lower ends to said ring at opposite sides thereof and at right angles to the pivots securing said sleeve, the weight at the lower ends of said side supports and removed from the sides of the candle, and a shade support at the upper ends of said side supports; substantially as set forth.

2. A candle shade holder, consisting of the sleeve adapted to fit over the candle and the ring to which at opposite sides thereof the said sleeve is freely pivoted, combined with the side supports freely pivoted above their lower ends to said ring at opposite sides thereof and at right angles to the pivots securing said sleeve, the heavy ring connecting the lower ends of said side supports and being of such greater diameter than the sleeve as to be

free of the candle when in use, and a shade support at the upper ends of said side supports; substantially as set forth.

3. A candle shade holder, consisting of the  
5 sleeve adapted to fit over the candle, combined with the side supports at opposite sides thereof, the weight at the lower ends of said side supports and removed from the sides of the candle, a shade support at the upper ends

of said side supports, and pivotal connections intermediate said sleeve and said side supports and at a point above the lower ends of the latter; substantially as set forth.

ROBERT WEBB MORGAN.

Witnesses:

JOHN WARD,

EDWARD PARRY MORGAN.