

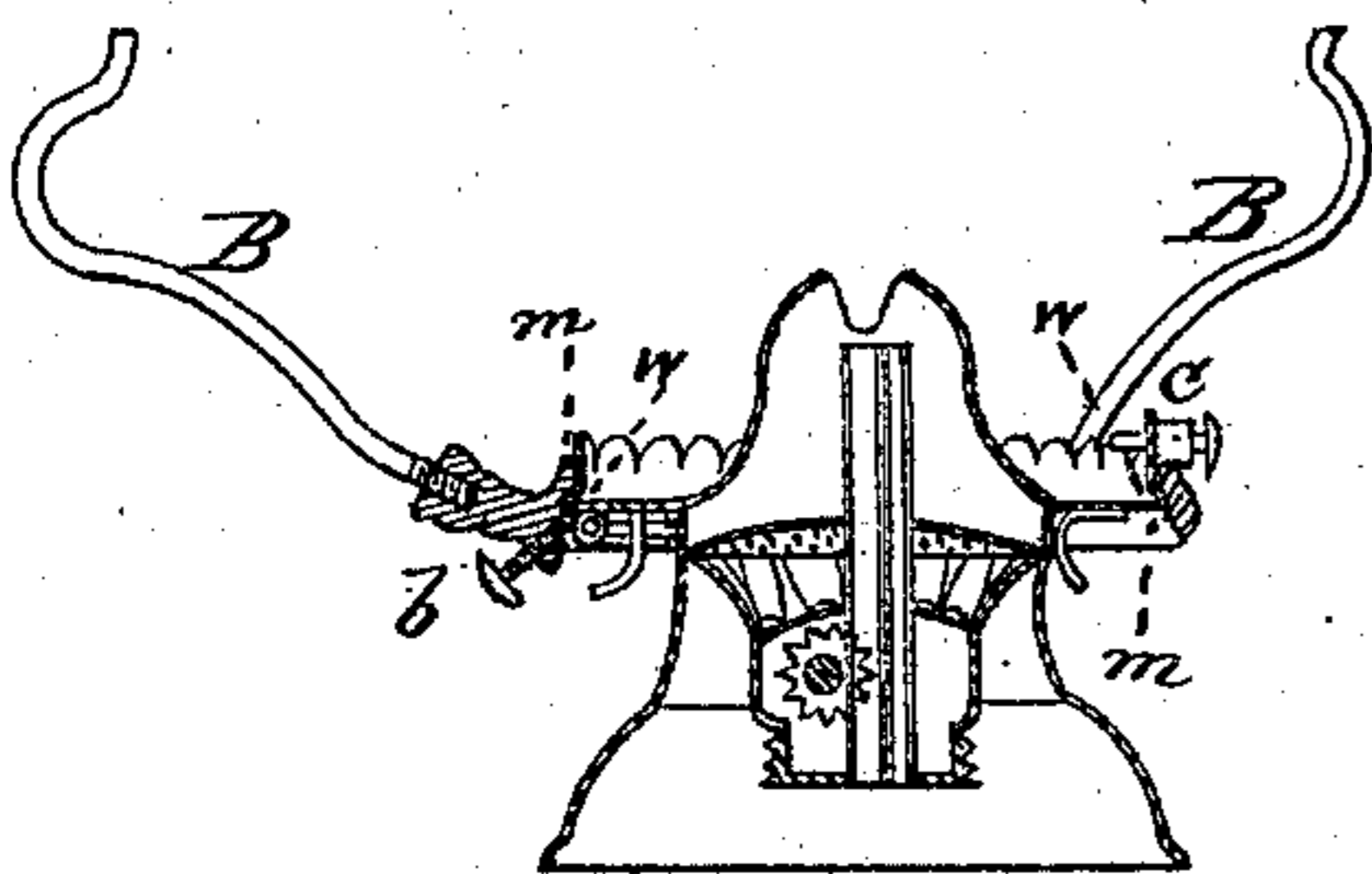
M. W. HOUSE.

Shade-Holders.

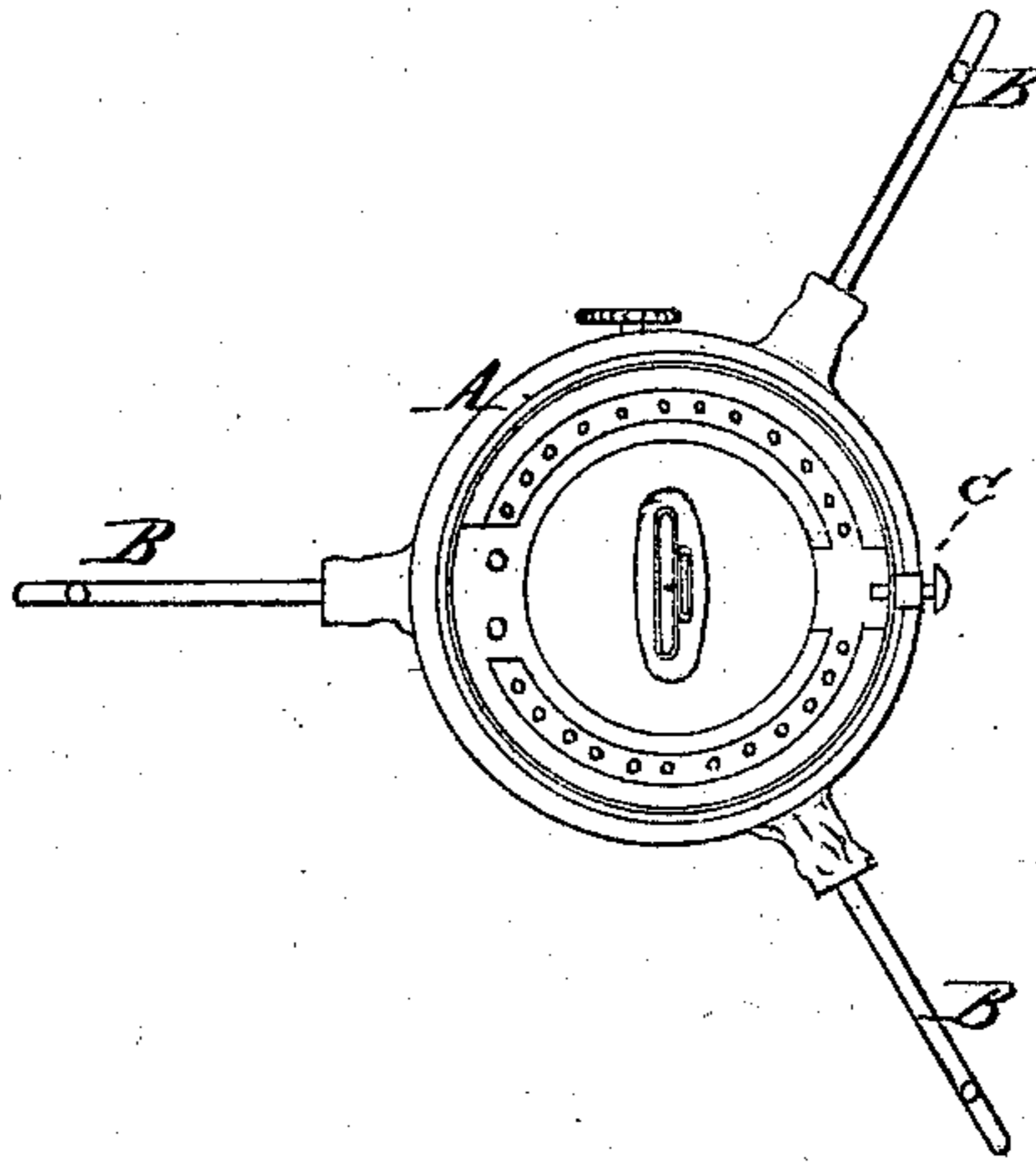
No. 137,306.

Patented April 1, 1873.

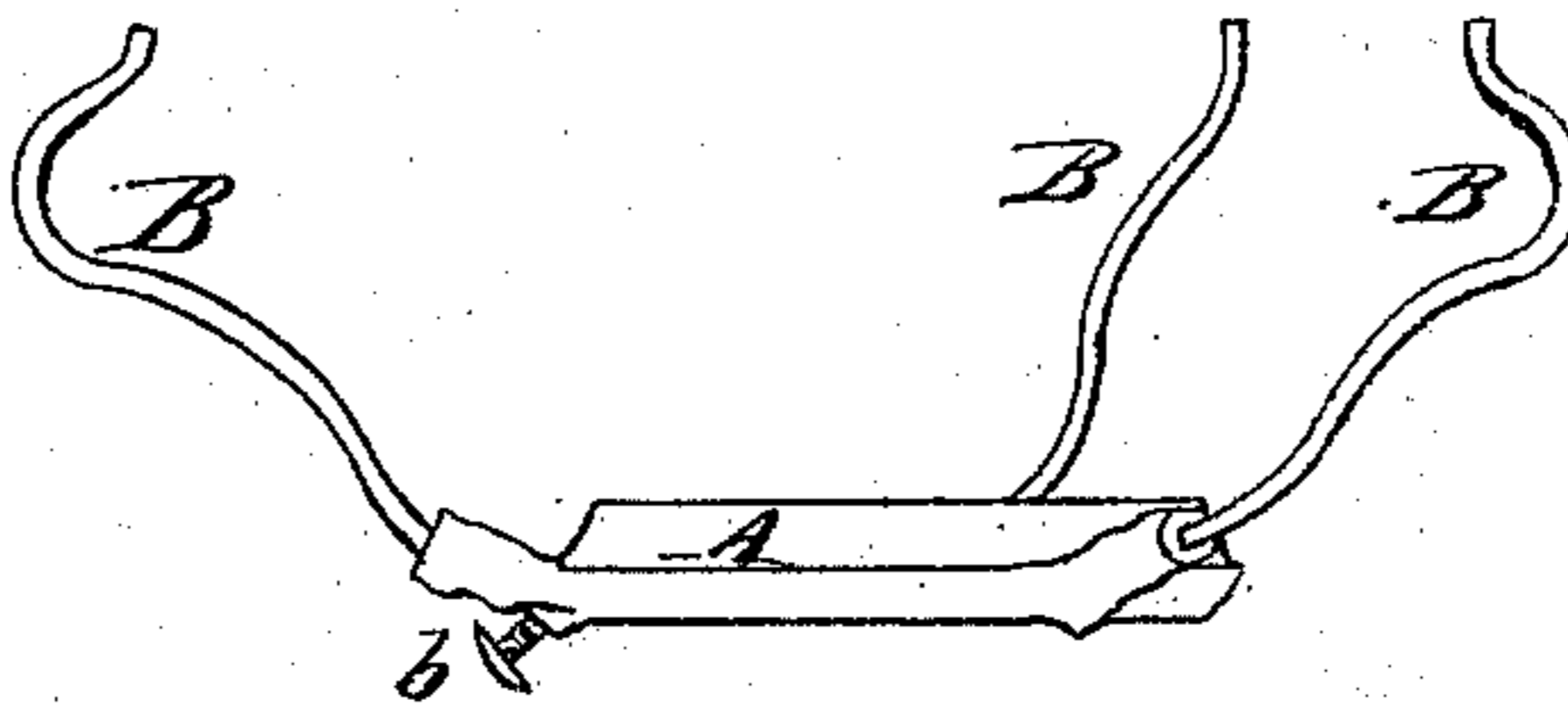
*Fig. 2.*



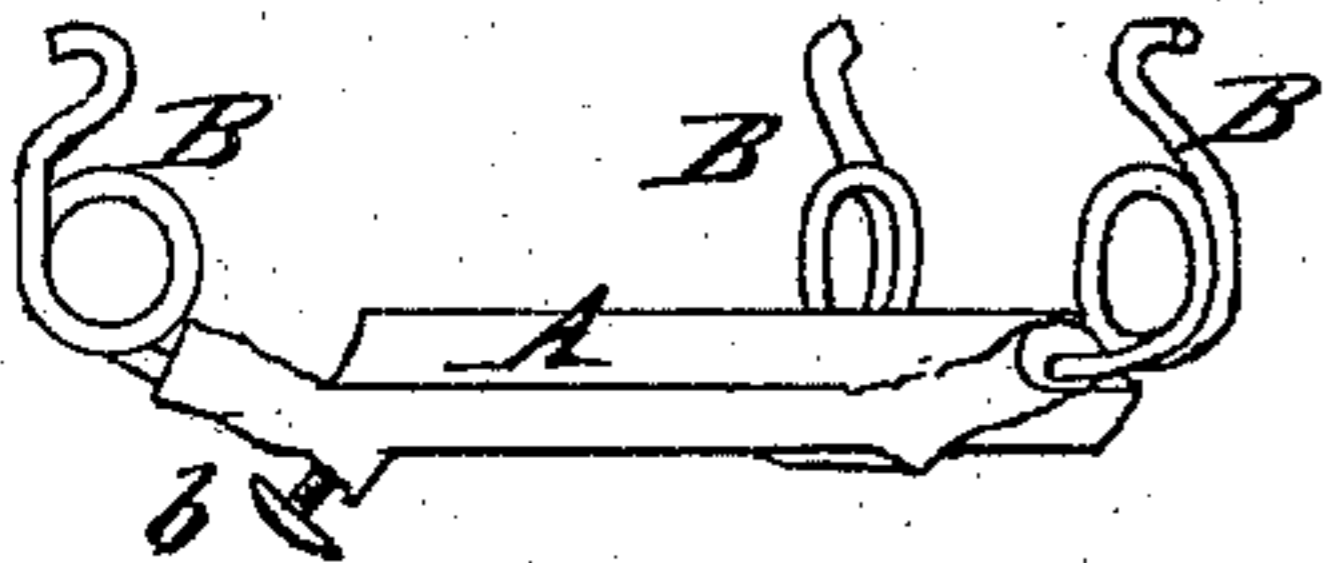
*Fig. 1.*



*Fig. 3.*



*Fig. 4.*



*Witnesses.*

*W. L. Bennett  
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*Inventor*

*Mark Wiggins House  
by his atty,  
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# UNITED STATES PATENT OFFICE.

MARK WIGGINS HOUSE, OF CLEVELAND, OHIO, ASSIGNOR TO THE CLEVELAND NON-EXPLOSIVE LAMP COMPANY, OF SAME PLACE.

## IMPROVEMENT IN SHADE-HOLDERS.

Specification forming part of Letters Patent No. **137,306**, dated April 1, 1873; application filed December 6, 1872.

*To all whom it may concern:*

Be it known that I, MARK WIGGINS HOUSE, of Cleveland, in the county of Cuyahoga and State of Ohio, have made an invention of certain new and useful Improvements in Lamps; and that the following is a full, clear, and exact description and specification of the same.

My invention has reference to the means of holding glass shades or globes to lamps for burning kerosene and other liquids; and my invention consists of a new shade-holder, and of the combination thereof with the burner of the lamp.

In order that my invention may be fully understood, I have represented in the accompanying drawing, and will proceed to describe, the mode in which I have embodied my invention with success.

Figure 1 of said drawing represents a plan of my new shade-holder combined with a lamp-burner. Fig. 2 represents a central vertical section of the same. Fig. 3 represents a side view of the shade-holder detached from the burner. Fig. 4 represents a side view of my shade-holder with arms of a different form from those represented in Fig. 3.

The shade-holder represented in said drawing has a ring-stock, A, and three arms, B B B, whose outer ends are hook-formed and free of any other connection than with the ring-stock at the inner ends of the arms, so that these outer ends may be applied to and hold the rim of the shade or globe. The ring-stock is of suitable size to fit upon the chimney-gallery of the burner, and it has in its interior a slightly-projecting rim or flange, *m*, which catches upon the rim *w* at the periphery of the said gallery, so that the ring-stock is supported by the latter. The ring-stock also is provided with a fastening for securing it to the burner; and the fastening represented in the drawing is a screw, *b*, which is arranged in such manner that its point can be screwed against the under side of the chimney-gallery to secure the shade-holder thereto.

When the shade-holder is applied to the gallery the side of the stock opposite the screw *b* is introduced beneath the hub *c* of the screw-fastening for the chimney, so that the hub prevents the shade-holder from ris-

ing at one side of the burner, while the screw *b* prevents it from rising at the opposite side.

I prefer to make the breadth of the ring-stock from its upper edge to the under side of the internal flange a little greater than the distance from the under side of the hub *c* to the upper side of the rim of the chimney-gallery, and to notch the upper side of the ring-stock at the place which is to correspond with the position of the said hub *c*, so that the notch indicates the part of the shade-holder which is to be applied to the hub *c*, and also tends to prevent the shade-holder when in place from being turned horizontally on the burner.

The internal flange may, of course, be replaced by projections or other means of preventing the shade-holder from slipping down over the burner.

The arms B of the shade-holder may be of any desired form to suit the shade or globe, and the form of the ring-stock may be modified to suit the particular burner to which it is to be applied.

A shade-holder constructed as above described can be manufactured for a low cost, is readily applied to the burner, and is securely fastened to it without interfering with the operation of the hinge of the chimney-gallery or the trimming of the wick.

I claim as my invention—

1. The improved shade-holder constructed, substantially as before set forth, with a ring-stock, a set of hook-ended arms free at their outer ends, an internal flange, and a screw arranged, as described, in position to bear against the under side of the gallery of the burner to which the shade-holder may be applied.

2. The combination of the said shade-holder with the chimney-gallery of the burner by means of the flange and the screw of the shade-holder and the hub of the fastening of the chimney-gallery, substantially as before set forth.

Witness my hand this 29th day of November, 1872.

MARK WIGGINS HOUSE.

Witnesses:

M. R. KEITH,

W. H. PEARSON.