

(No Model.)

H. L. JUDD.
WINDOW SHADE BAR.

No. 296,291.

Patented Apr. 1, 1884.

Fig. 1

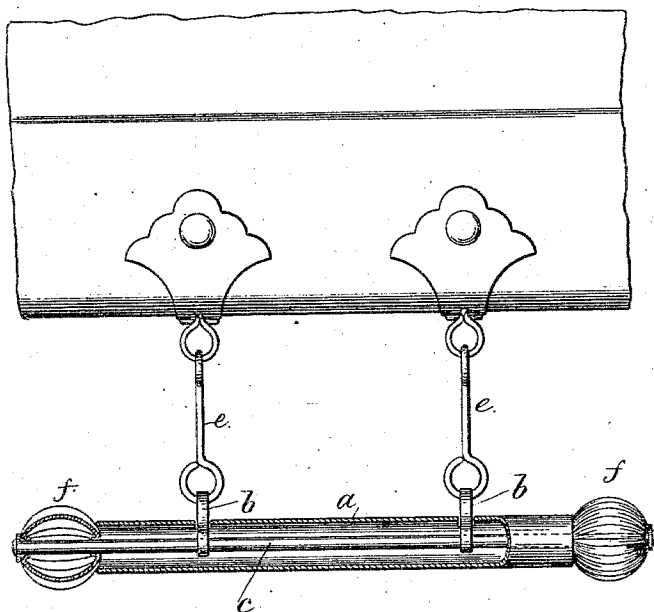


Fig. 2.

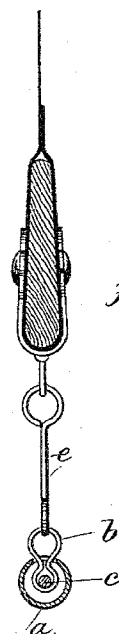


Fig. 3.



Witnesses

Charles H. Smith
J. Staley

Inventor

Hubert L. Judd
per Lemuel W. Terrell
[Signature]

UNITED STATES PATENT OFFICE.

HUBERT L. JUDD, OF BROOKLYN, NEW YORK.

WINDOW-SHADE BAR.

SPECIFICATION forming part of Letters Patent No. 296,291, dated April 1, 1884.

Application filed February 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, HUBERT L. JUDD, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Window-Shade Bars, of which the following is a specification.

In Letters Patent Nos. 291,197 and 291,741, granted to me, the shade-bar is suspended by eyes, the ends of which pass into mortises in a tube and are secured therein, and in Patent No. 291,741 there are corrugated globular end pieces.

My present invention relates to the manner of securing the end pieces, and to the connection for the eyes or links by which the bar is suspended.

In the drawings, Figure 1 is an elevation of the shade-bar partially in section. Fig. 2 is a cross-section, and Fig. 3 shows modifications in the form of the link or eye.

The bar *a* is tubular. It may be of metal, wood, ivory, or any suitable substance. In this bar there are openings or mortises, into which are inserted the suspending eyes or links *b b*, and these are held into the bar by a wire or rod, *c*, passed through their inner portions. The eyes or links *b b* may be made of wire or sections of metal tubes or pieces of sheet metal. Outside the shade-bar the eye or link is adapted to receive the suspending hook, chains, or loop *e*, and inside the bar it is provided with the eye or loop for the wire or rod *c*.

In Figs. 1 and 2 I have shown a link made of a section of a sheet-metal tube, and in Fig. 3 two links, each made of wire, bent into a form resembling the figure 8.

The end ornaments, *f*, may be globular, as in my aforesaid patents, or of any desired shape or ornamental character.

The wire or rod *c* is either a separate piece,

or, by preference, it is employed also to hold on the ornamental ends *f*. By passing the rod *c* through the ornamental ends and through the eyes or links *b* and riveting or soldering it at the ends I am able to simplify the construction and use the rod for the two purposes of securing the ends and holding the eyes, loops, or links.

I claim as my invention—

1. The combination, with the shade-bar having mortises in it, of eyes, loops, or links passing through such mortises, and a rod or wire within the shade-bar for securing the parts together, substantially as set forth.

2. The combination, with the shade-bar, of ornamental ends, and a rod passing through the shade-bar and holding the parts together, substantially as set forth.

3. The combination, with the shade-bar, of eyes or loops passing into mortises in the bar, a rod or wire within the bar for holding the same, and end pieces to the bar, also secured by the rod or wire, substantially as specified.

4. The combination, in a shade-bar, of a tube, end pieces to the tube, a wire or rod extending from one end piece to the other, and suspending devices passing through mortises and connected with the wire or rod, substantially as set forth.

5. The combination, with the tubular shade-bar, of ornamental end pieces, and a rod or wire passing through the end pieces and the shade-bar and secured at the ends by riveting or solder, substantially as set forth.

Signed by me this 12th day of February, A. D. 1884.

H. L. JUDD.

Witnesses:

WILLIAM G. MOTT,
HAROLD SERRELL.