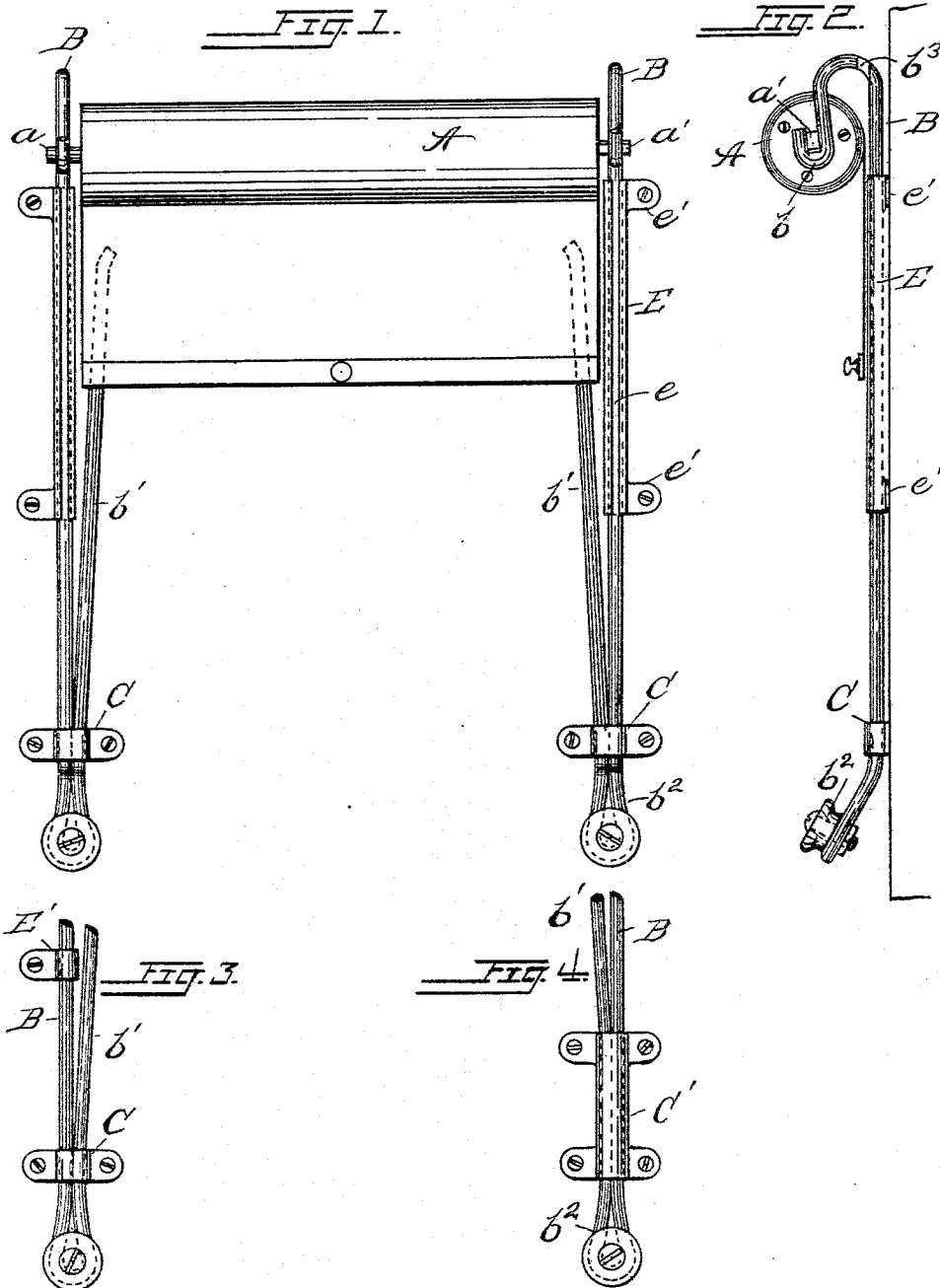


(No Model.)

W. F. NUNEMAKER.
ADJUSTABLE SHADE BRACKET.

No. 533,606.

Patented Feb. 5, 1895.



Witnesses

Eda Kelly
David Lewis

WILLIAM F. NUNEMAKER,

Inventor

By Attorney

W. F. Nunemaker

UNITED STATES PATENT OFFICE.

WILLIAM F. NUNEMAKER, OF READING, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO HENRY P. KEISER AND ISAAC G. ROBINSON.

ADJUSTABLE SHADE-BRACKET.

SPECIFICATION forming part of Letters Patent No. 533,606, dated February 5, 1895.

Application filed May 16, 1894. Serial No. 511,410. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. NUNEMAKER, a citizen of the United States, residing at Reading, county of Berks, State of Pennsylvania, have invented certain Improvements in Adjustable Shade-Brackets, of which the following is a specification.

My invention relates to devices for adjustably supporting window shade rollers so as to permit the raising or lowering of the roller upon the window frame for the purpose of admitting air or light at the top of the window without rolling up the shade.

My improved construction is fully described in connection with the accompanying drawings, and the novel features of the same are pointed out in the subjoined claims.

Figure 1 is a front elevation of a window shade mounted upon my improved adjustable brackets. Fig. 2 is a side elevation of the same. Figs. 3 and 4 illustrate modified forms of my device.

A represents an ordinary spring roller window shade. The roller journals *a a'* are supported in the bearings *b* at the top end of the sliding brackets B which are formed entirely of wire as shown. The said bearings are provided at the top of each bracket by merely bending the wire outward from the main stem and shaping the end to correspond with the journals *a a'*. The lower portion of the bracket is doubled by bending the wire upward at the lower end *b²* which is arranged to serve as a convenient handle for moving the bracket up and down as will be described later. The doubled up end *b'* of the wire is not arranged to close normally against the main stem of the bracket except near the lower end, but serves as a spring arm which is forced in toward the main stem by contact with a fixed clip C on the window frame as the bracket is moved up and down thus producing sufficient friction to hold it at any desired point. In addition to the clip C which spans both the main stem and the spring arm *b'* I employ a guide E also fixed to the window frame above the clips C and engaging the main stem only of the bracket.

In Fig. 1 the guide E is represented as a slotted tube with ears *e' e'* at either end for fastening the same to the window frame; the longitudinal slot *e* engaging the reduced portion *b³* of the overhanging top of the bracket

B as the bracket is moved up and down and serving to positively prevent any twisting or transverse movement thereof.

In Fig. 3 I have shown the guide E' formed in a similar manner to that of the clip C instead of the elongated form shown in Fig. 1. In this construction the groove is not needed. The end of the bracket B stops when brought in contact with it. In this case however the upper portion of the bracket extends beyond the guide E' and consequently requires greater stiffness in itself to properly carry the roller than is the case when the form of guide shown in Fig. 1 is employed.

In Fig. 4 the clip C' is shown considerably larger than in Fig. 1 so as to enable it to serve as a sufficient guide in itself for cases in which the vertical movement required is not great.

What I claim is—

1. In a device for holding shade rollers at different heights the adjustable brackets formed of wire bent at the top to support the roller journals, and doubled up to form a spring arm *b'* in combination with a clip adapted to engage the doubled up portion of the brackets and adjustably hold the same by the spring of the said arm, substantially as set forth.

2. In a device for holding shade rollers at different heights the adjustable brackets formed of wire bent at the top to support the roller journals, and doubled up to form a spring arm *b'* in combination with a clip adapted to engage the doubled up portion of the bracket and a guide engaging the main stem only of the bracket, substantially as set forth.

3. The combination with adjustable brackets formed of wire bent at the top to support the roller journals and doubled up to form a spring arm *b'*, of a clip engaging the doubled up portion of the bracket and a guide engaging the main stem only thereof, said guide being provided with a longitudinal slot and the top of the bracket being arranged to ride in said slot, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM F. NUNEMAKER.

Witnesses:

ADAM B. RIESER,
JNO. C. SELTZER.