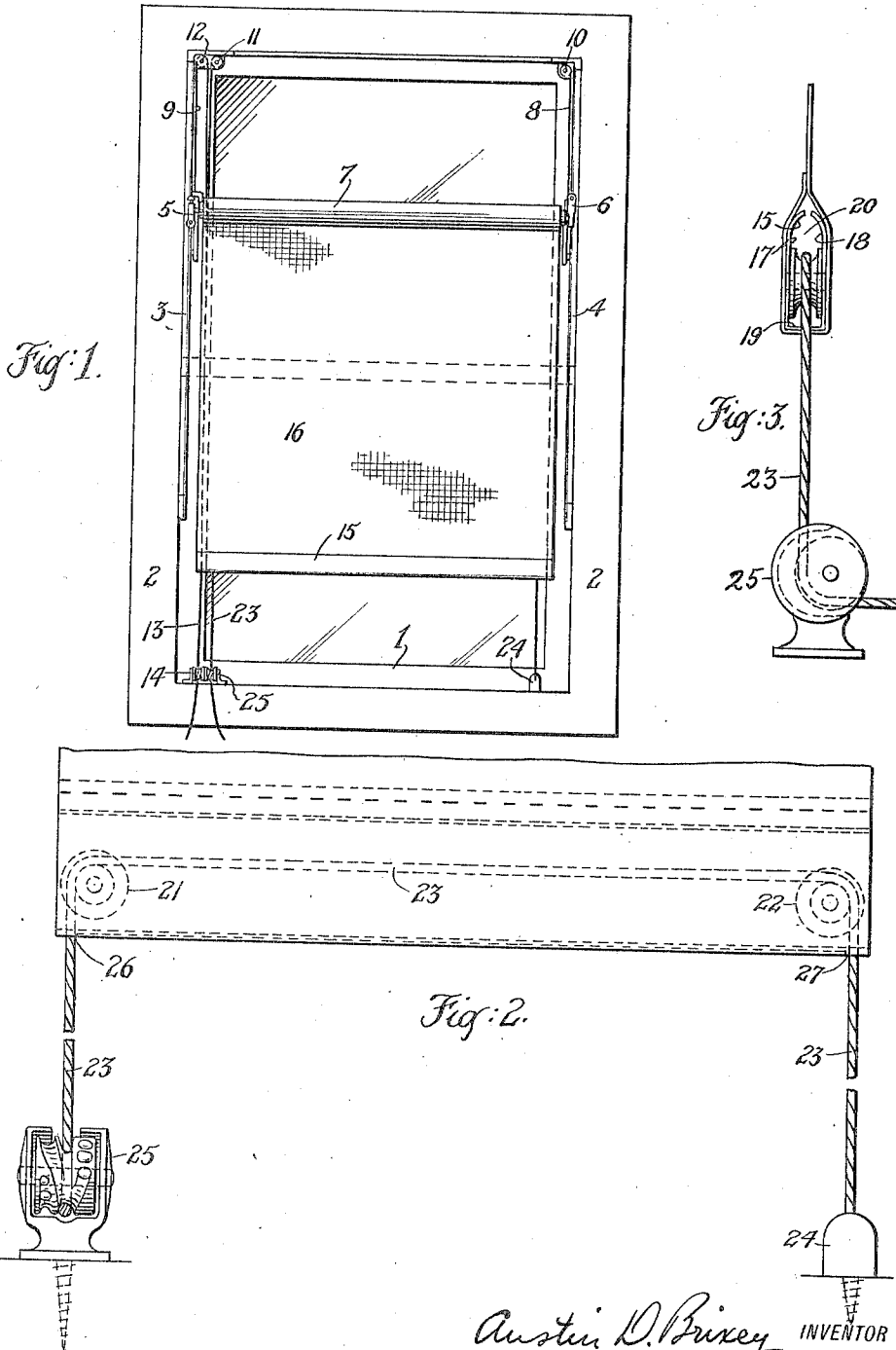


A. D. BRIXEY,  
SHADE HARNESS.  
APPLICATION FILED APR. 5, 1917.

1,291,389.

Patented Jan. 14, 1919.



Austin D. Bixey INVENTOR  
BY  
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# UNITED STATES PATENT OFFICE.

AUSTIN D. BRIXEY, OF NEW YORK, N. Y., ASSIGNOR TO ORDINATOR COMPANY, INC., A CORPORATION OF NEW YORK.

## SHADE-HARNESS.

1,291,389.

Specification of Letters Patent.

Patented Jan. 14, 1919.

Application filed April 5, 1917. Serial No. 159,893.

*To all whom it may concern:*

Be it known that I, AUSTIN D. BRIXEY, a citizen of the United States, residing at city, county, and State of New York, have  
5 invented new and useful Improvements in Shade-Harness, of which the following is a specification.

This invention relates to securing means for window shades known as "shade harness". Where the usual single restraining  
10 cord is used, the shade can twist and whip about the center of the cord as an axis. To prevent this, a cord has been secured to one end of the window sill, passed over pulleys  
15 suspended from the shade stick at the ends thereof, and secured at the other end of the sill. This more securely holds the shade, preventing the twisting, etc., referred to, and the arrangement is commonly known as  
20 shade harness. The apparatus hitherto employed, however, has been unsightly and the reverse of compact.

The main object of the present invention is to provide a shade harness which shall be  
25 compact and also shall not detract from the appearance of the window.

Other and ancillary objects of the invention will appear hereinafter.

In the accompanying drawings, which  
30 illustrate the invention—

Figure 1 is a front elevation of a window and shade equipped with the invention;

Fig. 2 is a similar view of the bottom portion of the shade and its appurtenant appli-  
35 ances, on a much enlarged scale, and

Fig. 3 is an end view of the apparatus of Fig. 2 viewed from the left of Fig. 2.

Referring to the drawings, the sash 1 is mounted within the frame 2 in the usual  
40 manner. To the frame, both sides, are secured the guides 3 and 4 within which slide the vertically adjustable brackets 5 and 6 supporting the shade roller 7. These brackets are supported by cords 8 and 9 respec-  
45 tively secured to the brackets, the cord 8 passing over the guide pulleys 10 and 11 while the cord 9 passes over the pulley 12, these pulleys being secured to the frame. The two cords mentioned are secured to a  
50 single cord 13 which engages with a cord holder 14 secured to the window sill.

The shade stick 15 is secured at the bottom of the shade 16 by passing the end of the shade about it and sewing the shade end to

an upper portion of the shade above the 55 stick.

The shade stick is formed of sheet metal having the sides 17 and 18 bent up from the bottom 19, forming a channel 20 extending longitudinally of the stick from one end to 60 the other.

Within the channel 20 are mounted the rotatable cord guiding pulleys 21 and 22. It will be observed that these guides are mounted entirely within the boundaries of 65 the shade so as to be concealed, a neat appearance of the apparatus being thereby promoted.

One end of the retaining cord 23 is secured to the window sill by an anchoring device 24. Thence it passes over the pulleys 21 and 22, through the channel 20 and the cord holder 25 which is secured to the window sill. Openings 26 and 27 are formed in the bottom 19 of the stick, at its ends, to 75 permit the cord to pass directly from the respective guide pulleys to the cord anchor and holder.

It will now be apparent that by taking up or paying out the cord 23 through the holder 80 25 and securing it in desired adjusted positions, the length of the cord between the anchor 24 and the holder 25 can be varied and the shade held in any desired position of adjustment. 85

While the invention has been illustrated in what is considered its best application, it may have other embodiments without departing from its spirit and is not therefore limited to the structure shown in the draw- 90 ings.

What I claim is:—

1. The combination with a window frame of a shade roller, a shade thereon, a shade stick extending across said shade at the other 95 end thereof from said roller, said shade stick having a longitudinal recess, a cord secured to said window frame at the sill end, extending upwardly to said shade stick, passing longitudinally therethrough, and the free 100 end of said cord passing downwardly to the sill end of said window frame, and means for securing the free end of said cord to said window frame in various adjusted positions. 105

2. The combination with a window frame, of a shade roller, a shade thereon, a shade stick extending across said shade at the

other end thereof from said roller, said shade stick having a longitudinally extending recess, rollers mounted in said recess and lying wholly therein, a cord secured to said window frame at the sill end, said cord passing upwardly to said shade stick and passing over the tops of the said rollers, the free end of said cord passing downwardly from said shade stick, and means for securing the free end of said cord to the sill end of said frame in various positions of adjustment.

3. The combination with a window frame, of a shade roller, a shade thereon, a shade stick extending across said shade at the other end thereof from said roller, said shade stick being of sheet metal bent to

form a hollow rod, cord pulleys rotatably mounted within said stick, said stick having openings therein at its end, a retaining cord for the shade secured at one end to said window frame at its sill end, said cord passing upwardly to said shade stick, through said openings in the ends of said stick, over the tops of said pulleys and longitudinally through the interior of said stick, the said cord after traversing said stick, passing downwardly to the sill end of said frame, and means for securing the free end of the cord to said frame in various adjusted positions.

In testimony whereof I have signed this specification this 4th day of April, 1917.

AUSTIN D. BRIXEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."