

No. 635,106.

Patented Oct. 17, 1899.

E. F. MEAGHER.
WINDOW SHADE CORD TIGHTENER.

(Application filed July 14, 1899.)

(No Model.)

Fig. 1

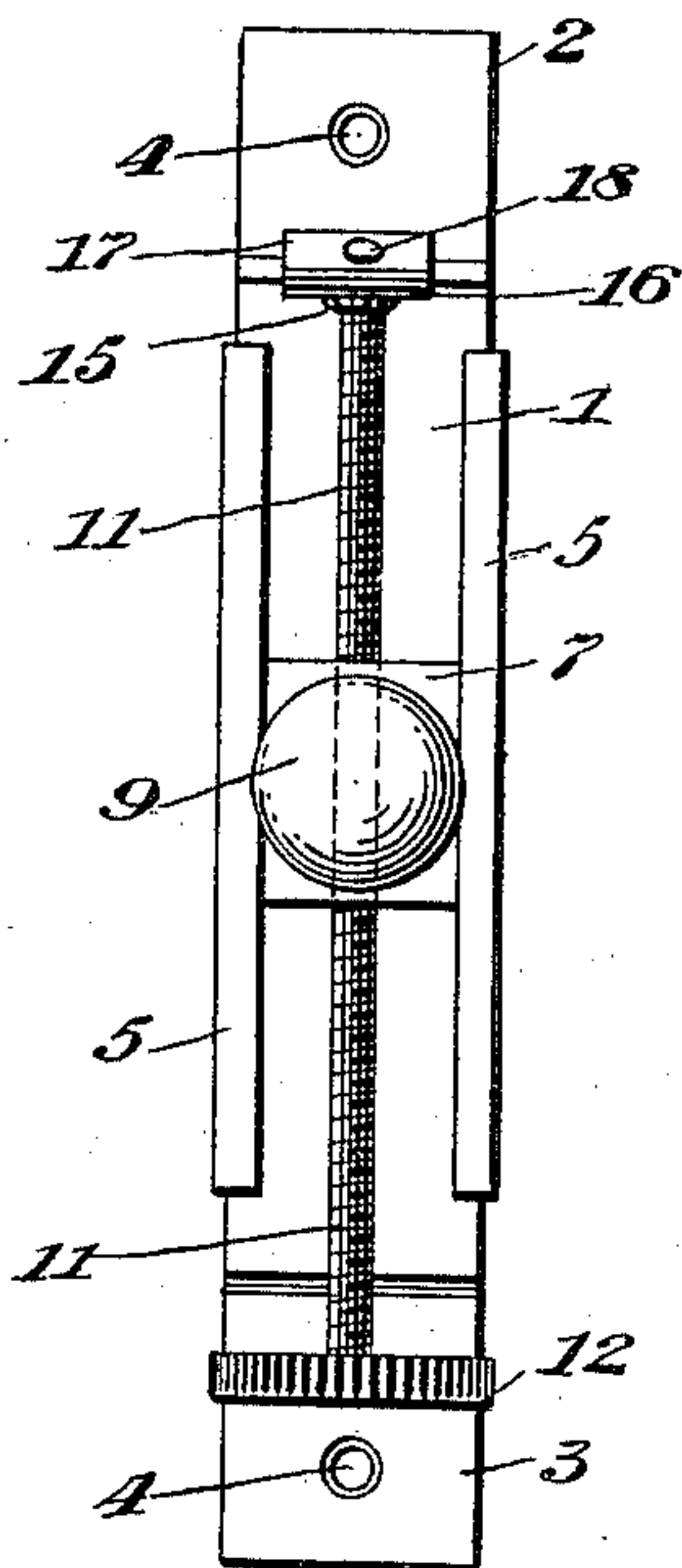


Fig. 2

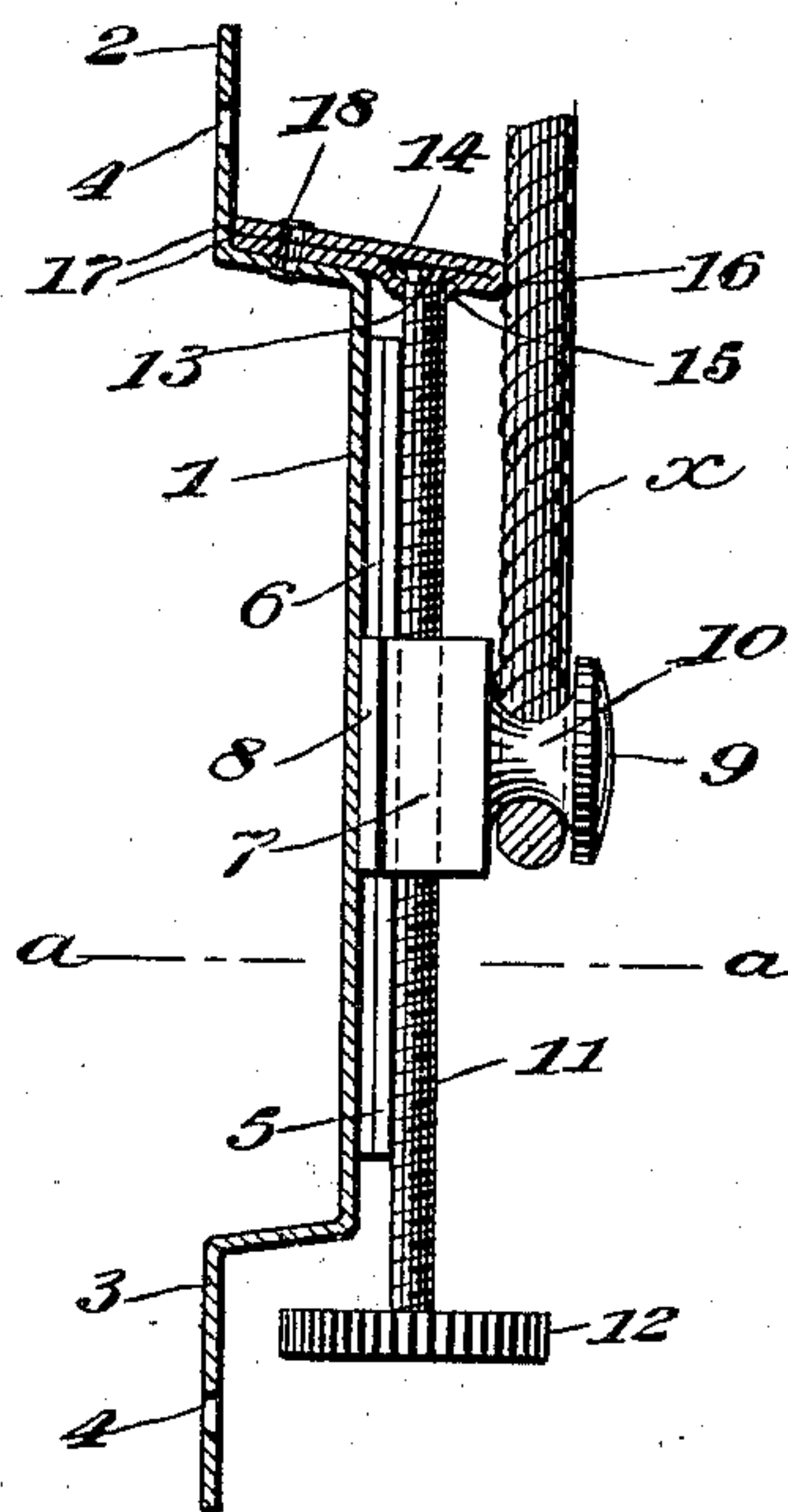
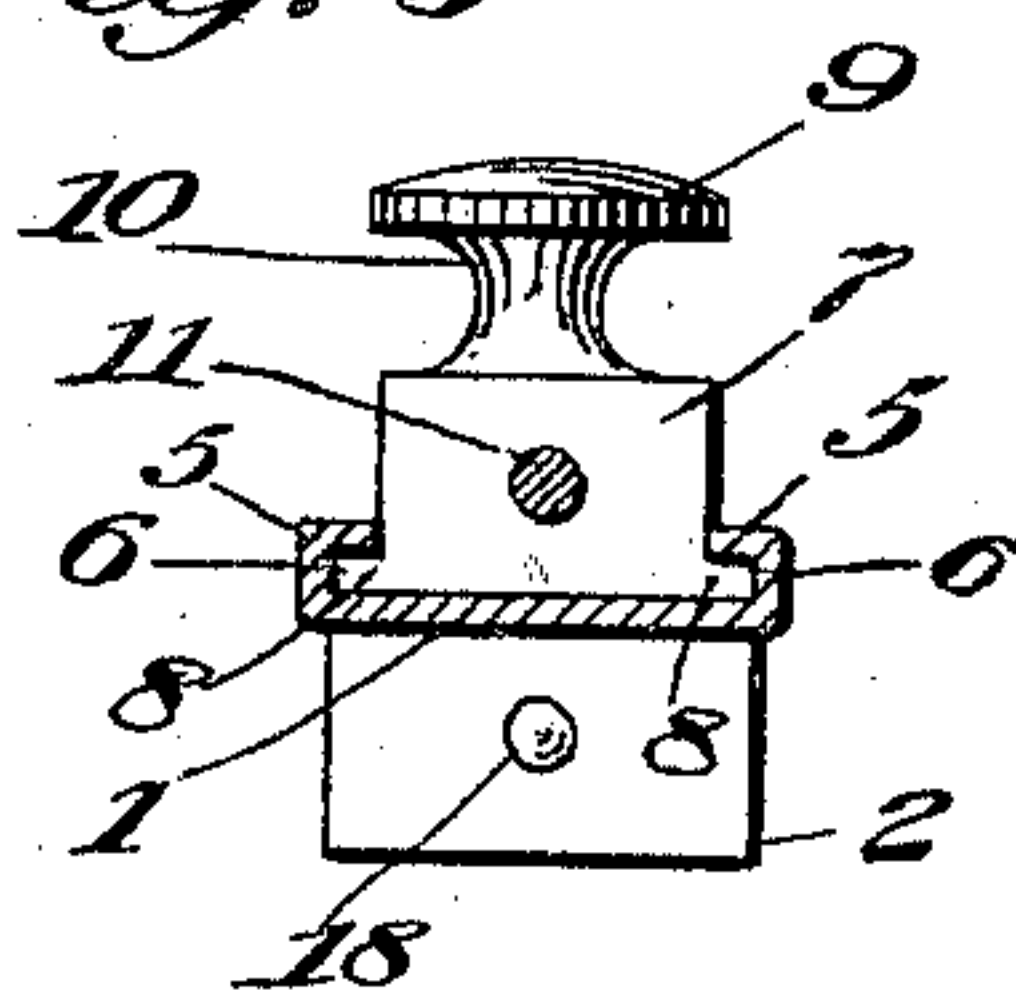


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD F. MEAGHER, OF GLENDALE, OHIO.

WINDOW-SHADE-CORD TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 635,106, dated October 17, 1899.

Application filed July 14, 1899. Serial No. 723,794 (No model.)

To all whom it may concern:

Be it known that I, EDWARD F. MEAGHER, a citizen of the United States of America, and a resident of Glendale, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Window-Shade-Cord Tighteners, of which the following is a specification.

This invention relates to certain improvements in curtain-cord tighteners, and has for its object to provide a device of this character which shall be simple and inexpensive in construction and capable of ready and accurate adjustment for tightening or straining the curtain-cord and which shall when adjusted be adapted for holding the cord properly strained.

The invention consists in certain novel features of the construction, combination, and arrangement of the several parts of the improved curtain-cord tightener whereby certain important advantages are attained and the device is made simpler, cheaper, and otherwise better adapted and more convenient for use, all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claim.

In the accompanying drawings, which serve to illustrate my invention, Figure 1 is a face view showing a curtain-cord tightener constructed according to my invention, and Fig. 2 is a central section taken longitudinally through the device. Fig. 3 is a section taken transversely through the device in the plane indicated by line *a a* in Fig. 2.

As shown in the drawings, the frame of the device is formed of an elongated piece or flat strip of sheet metal having its end portions provided with double bends, whereby they are projected in a plane beyond but parallel with the central or body portion 1 of the frame. The end portions 2 and 3 of the frame are formed with openings 4 for the passage of screws or nails by means of which the device is secured in an erect position upon the side of the window-casing.

The central or body portion 1 of the frame is formed with lateral wings or projections 5 5, extending along its opposite sides and bent out beyond the plane of said body portion and also intumed to form at opposite sides of said body portion overhanging or un-

dercut guides or guideways 6 6, between which is arranged to play, sliding lengthwise over the outer surface of the body 1, a block or slide-piece 7, the opposite sides of which are formed with outwardly-extending flanges or projections 8 8 to engage and slide along the undercut guideways 6 of the body portion 1 of the frame.

The slide block or plate 7 is provided upon its outer surface with a projecting knob or handle 9 of rounded form, preferably made integral with the slide block or plate, being carried on a rounded and reduced neck 10, over which is arranged to pass the depending bight of the curtain-cord, as clearly shown at *x* in Fig. 2. The enlarged head or knob 9 serves to hold the curtain-cord securely in place against slipping off the neck 10, the rounded form of which permits the necessary movement of the cord in the direction of its length in operating the curtain.

The slide block or plate 7 is formed with a screw-threaded opening extending through it and serving to receive a screw-threaded shaft or stem 11, extended lengthwise along the front face of the frame and having its lower end provided with an enlarged and milled thumb-piece 12, by means of which it may conveniently be turned. The upper end of the shaft or stem 11 is formed with a head or enlargement 13, held in a cavity or recess 14, pressed in a metal strip 16, said strip having at the central part of said recess or cavity an opening 15 for the passage of the stem, but of a diameter less than that of the head or enlargement 13 thereof, so as to prevent the withdrawal of said head from the recess in the strip 16. The strip 16 is bent or folded upon itself at its central part, as clearly shown in Fig. 2, the ends 17 of the strip being carried over and secured by means of a rivet 18 or the like to the bent upper part of the frame, so that the strip forms an extension from the front face of the frame at the top end thereof, and the outer ply or end 17 of said strip closes the recess or cavity 14 and effectually prevents endwise movement of the screw shaft or stem 11.

In use the curtain-cord is passed around the under side of the neck 10 of the slide-plate knob 9, and when it is desired to tighten or strain said cord it is only necessary to turn

the screw shaft or stem 11, by means of its milled head or thumb-piece 12, so as to cause the slide block or piece 7 to move down along the body 1 to strain the cord. When desired, the cord may be loosened by turning the shaft 11 in the opposite direction.

The device constructed as herein set forth is of an extremely simple and inexpensive nature and is especially well adapted for use, owing to the ease with which the cord may be strained and the security with which it is held when adjusted, there being no liability of the slide-block slipping up along the body 1 so as to relax the cord. It will also be seen from the above description of my improvements that the device is capable of some modification without material departure from the principles and spirit of the invention, and for this reason I do not wish to be understood as limiting myself to the precise form and arrangement of the several parts herein set forth.

Having thus described my invention, I claim—

25 In a curtain-cord tightener, the combination of a frame having a body portion formed with integral lateral extensions, said extensions being bent outwardly from the front

face of the body portion along opposite lateral edges thereof and being bent toward each other to form along opposite sides of said body portion undercut guideways, a slide-piece having projections at its sides engaging said guideways to hold the slide-piece upon the frame and formed with a screw-threaded opening, a metal strip bent upon itself and having both ends secured at the upper end of the body portion with the bent central part of the strip extended beyond the front face of the same, one ply of said strip having a perforation, and a screw-threaded stem engaged with the threaded opening of the slide-piece and extended along the front face of the body portion, said stem having its upper end collared in the extension formed by said strip at the upper end of the body portion and having its opposite end free from the frame and provided with a thumb-piece by means of which it may be turned, substantially as set forth.

Signed by me at Cincinnati, State of Ohio, this 12th day of July, 1899.

EDWARD F. MEAGHER.

Witnesses:

JOHN ELIAS JONES,
MILES D. OSGOOD.