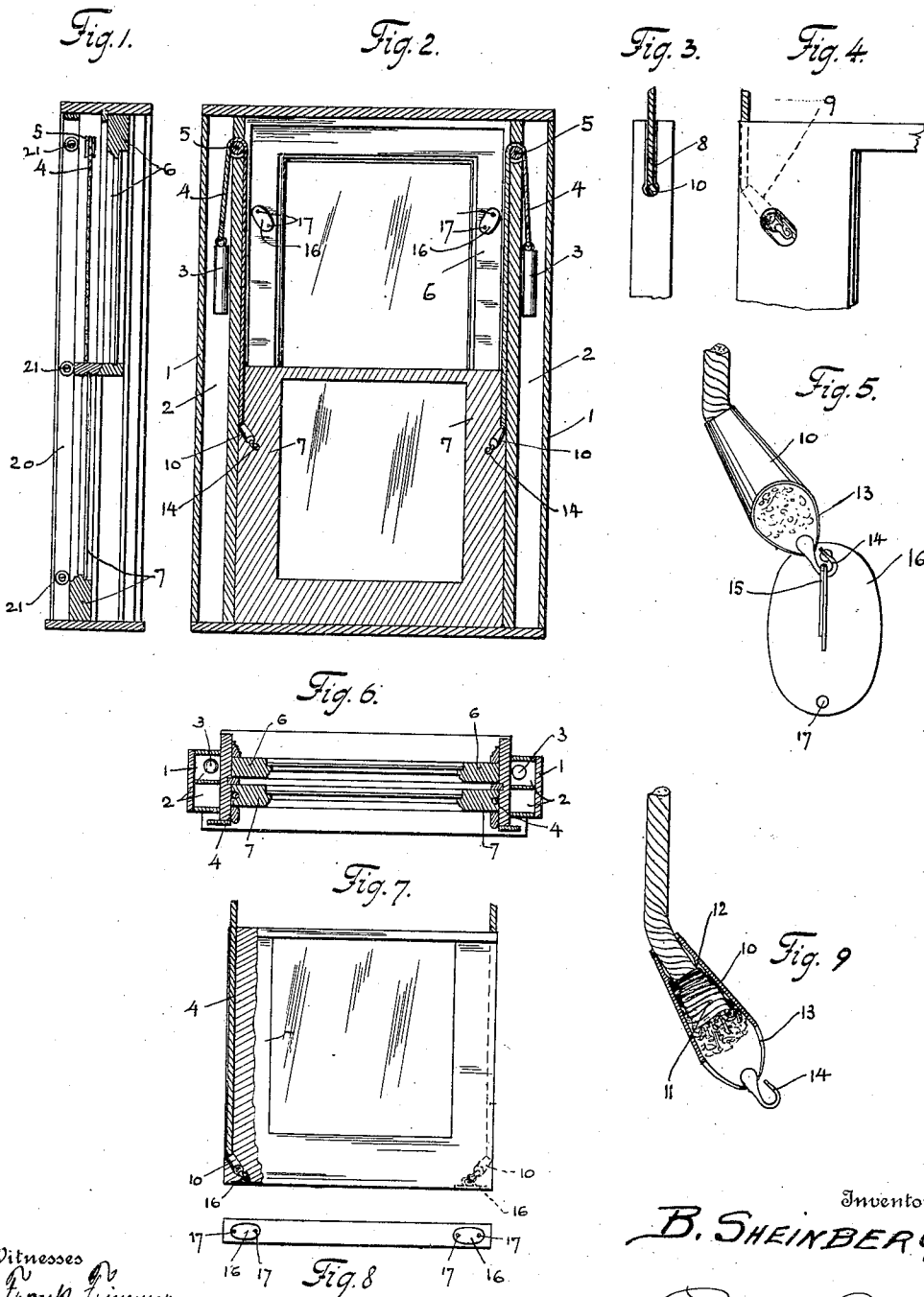


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SASH CORD FASTENER.
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BENJAMIN SHEINBERG, OF PITTSBURG, PENNSYLVANIA.

SASH-CORD FASTENER.

937,553.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BENJAMIN SHEINBERG, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Sash-Cord Fasteners, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to window frames and sashes, and more particularly to means for fastening the sash cords of a window frame in the sashes thereof.

15 The object of the invention is to provide a novel fastener for detachably connecting the end of a sash cord to a sash, whereby after the guide beads of a window frame have been removed, the ends of a sash cord can be quickly unfastened from the sash to permit of the sash being removed from the window frame.

20 My invention aims to obviate the necessity of swinging a sash from a window frame in order to release the sash cords, and this is accomplished by providing a cord fastener to which easy access can be had from the inner side of the sash. The fastener embodying reliable means for positively holding the ends of a sash cord in engagement with the sash.

25 My invention will be hereinafter considered in detail and then specifically pointed out in the appended claims and reference will now be had to the drawing, wherein there is illustrated a preferred embodiment of the invention, but it is to be understood that various changes can be made without departing from the spirit and scope of the invention.

30 In the drawings, Figure 1 is a vertical sectional view of a window frame constructed in accordance with my invention, Fig. 2 is a vertical transverse sectional view of the same, Fig. 3 is an edge view of a portion of the sash, Fig. 4 is a side elevation of the same, Fig. 5 is an enlarged perspective view of the sash cord fastener, Fig. 6 is a horizontal sectional view of the window frame, Fig. 7 is a side elevation of a window sash partly broken away and partly in section, Fig. 8 is a bottom plan of the same, Fig. 9 is an enlarged vertical sectional view of the sash cord fastener.

35 In the accompanying drawings, 1 designates a window frame having weight wells

2 for weights 3 attached to cords 4, which pass over pulleys 5 at the upper end of a window frame, said cords being fastened to the sashes 6 and 7 of the window frame.

The manner of fastening the cords 4 is as follows:—The upper side edge of each sash is provided with vertical grooves 8 having the lower ends thereof communicating with angularly disposed tapering openings 9, the large ends of said openings terminating at the front side of the sash, whereby easy access can be had to the interior of each opening.

40 The ends of the cords 4 are adapted to extend through the grooves 8 and the openings 9, and are provided with tapering metallic sockets 10, said sockets being retained in engagement with the cords 4, by unraveling the ends of the cords and weaving the same to provide an enlargement 11 that cannot be pulled through the small end of the socket 10. This can also be accomplished by winding the end of the sash cord with an additional cord or string, and in either instance, to insure a positive connection between the sash cord and the socket 10, the inner sides of the socket 10 adjacent to the small ends thereof are provided with prongs 12 adapted to engage the enlargement 11. The outer end of each socket is cut at an inclination, as at 13, the plane of the inclination being parallel with the plane of the front side of the window sash, whereby if the socket is pulled outwardly from the opening 9, the edges thereof will be flush with the edges of the sash bordering upon the opening 9.

45 The enlarged end of each socket is provided with a hook 14 adapted to engage in an eye 15, carried by the inner side of an oval plate 16. This plate is adapted to close the large and open end of the opening 9, and to secure the plate to the sash, nails or screws 17 can be used.

50 The weights 3 will normally hold the plates 16 in engagement with the sash irrespective of the nails or screws 17, but I prefer to fasten the plates 16 whereby the sash cord fasteners cannot be tampered with.

55 As shown in Figs. 7 and 8 of the drawings, the grooves 8 can be prolonged and the openings 9 provided at the lower edges of the sash, whereby the plate 16 will be held in engagement with the bottom edge of the sash, the plates 16 are preferably coun-

ter-sunk, whereby the bottom edge of the sash can positively engage the sill of a window frame.

Having now described my invention, what I claim as new, is;—

1. The combination with a sash having a depending opening formed therein terminating at the side edge and front side of said sash, and a cord adapted to extend in said opening, of a metallic socket mounted upon the end of said cord and adapted to engage in the opening of said sash, and a plate detachably connected to said socket for closing the large end of the opening of said sash.

2. The combination with a sash having an opening formed therein, and a cord adapted to extend into said opening, of a tapering metallic socket mounted upon the end of said cord and adapted to engage in said opening and a plate detachably connected to said socket for closing one end of said opening.

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

BENJAMIN SHEINBERG.

Witnesses:

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