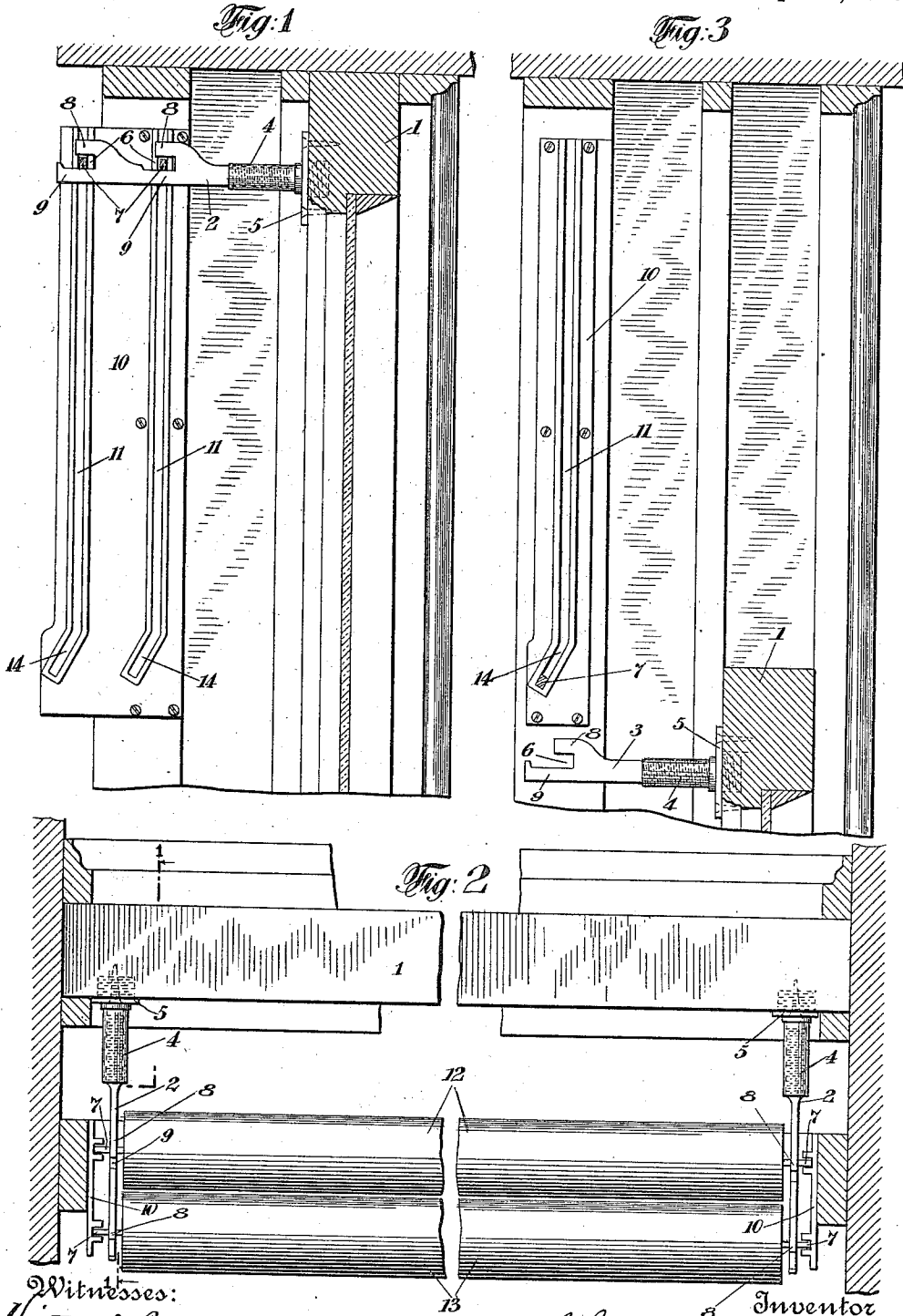


C. W. HUTCHINSON.
WINDOW SHADE FIXTURE.
APPLICATION FILED JULY 27, 1912.

1,059,964.

Patented Apr. 22, 1913.



Witnesses:
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WINDOW-SHADE FIXTURE.

1,059,964.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES W. HUTCHINSON, citizen of the United States, residing at New Rochelle, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Window-Shade Fixtures, of which the following is a specification, reference being had therein to the accompanying drawings, forming part thereof.

My invention relates to fixtures for window shades and has for an object to provide means for removing a shade from the portion of a window opening which is not closed by a window sash, especially from the top, so as not to impede free ventilation.

Other objects are simplicity, inexpensiveness and durability of construction, and facility and reliability of operation.

Still other objects and advantages of my invention will appear from the following description.

My invention comprehends a construction in which the shade is carried along part of the way with a sash as the sash is moved in one direction and is automatically released therefrom and caught again as the sash is moved back. More specifically the shade is supported on brackets carried by the sash and is released therefrom by releasing and holding means carried by the window frame, which catch the shade as the sash moves by and hold the shade in position to be caught again as the sash moves back.

My invention also comprehends various other features of construction and combinations of parts as will hereinafter more fully appear.

I shall now describe the embodiment of my invention illustrated in the accompanying drawings, and shall thereafter point out my invention in claims.

Figure 1 is a transverse section, taken on line 1—1 of Fig. 2, of the upper portion of a window employing fixtures embodying my invention. Fig. 2 is a plan of the same with the top of the window frame removed. Fig. 3 is a view corresponding to Fig. 1, showing fixtures for one curtain and showing the shade released from the window sash.

In the illustrated embodiment of my invention, one or more shades are supported at each end on the upper vertically slidable window sash 1 by a bracket such as bracket 2, shown in Figs. 1 and 2, for two shades,

or the bracket 3, shown in Fig. 3, for one shade. The inner ends of these brackets are screw threaded and screw into internally threaded tubular members 4, which in turn screw into socket members 5 which are set into the side pieces of the window sash near the top thereof and are secured thereto as by screws. The brackets 1 and 2 are provided with a longitudinally extending receiving slot 6, for the respective roller spindle 7 of each shade roller of the shades 12 and 13, this slot 6 being open at its outer end and being formed by bifurcating the bracket, thereby providing a short overhanging arm 8 and a complementary arm 9 on the under side of the slot 6, the under arm 9, being somewhat longer than the overhanging arm 8, so that, while the roller spindle 7 is moved downward with the bracket when it is at the inner end of the slot 6 underneath the overhanging arm 8, as shown in Figs. 1 and 2, by the overhanging arm bearing upon the spindle, the spindle may be lifted out of the bracket when it is at the outer end of the slot and resting upon the under arm 9, free of the overhanging arm. To thus move the spindles in their slots to and from locked position, stationary guides are provided on the window frame, as will now be described.

On each side of the window frame is secured a plate 10, preferably of metal, and provided with outstanding ribs to form vertically extending guide grooves 11, each of which is provided at its lower end with a portion 14, which turns outwardly from the window sash 1. These grooves are closed at their lower ends, and the respective roller spindles 8 of the shades 12 and 13, extend into these grooves and are guided thereby as the sash 1 is raised and lowered. These guide grooves are so disposed that their vertical portions retain the spindles 7 underneath the overhanging arms 8, in the slots 6 of the shade supporting brackets, but their outwardly turned lower ends 14 guide the spindles 7 outwardly in the slots 6 as the sash 1 is lowered until the spindles are free of the overhanging arms 8, and the shades are thereby released from the brackets on the sash 1. The outwardly turned ends 14 are of such length that the spindles 7 reach the ends of the guide grooves just as they clear the overhanging arms 8, and they are held in that position in the path of the arms

9 until the sash is returned and they are picked up by the arms 9, and thereafter are carried up with the sash. As they are thus moved up, the portions 14 of the guide grooves 11 return the spindles to their locked positions underneath the overhanging arms 8.

It is apparent from the above that the shades are locked to the window sash and move therewith as long as the range of movement is above the outwardly turned portions 14 of the guide grooves 11, and that if it be desired to lower the sash any farther than this, the shade is automatically released and held there until the sash returns. The shade is therefore, never lowered sufficiently to be unsightly, while it is lowered sufficiently to permit liberal ventilation at the top of the window.

It is obvious that various modifications may be made in the construction shown in the drawings and above particularly described within the principle and scope of my invention.

I claim:

1. In combination with a slidable window sash and a frame therefor, a window shade holder carried by the sash and shade releasing and holding means carried by the frames and adapted to release the shade from the holder as the sash moves in one direction, and to hold the shade in position to be picked up by the holder as the sash moves in the opposite direction.

2. Window shade fixtures comprising shade supporting brackets adapted to be carried by the window sash, and shade releasing and holding means adapted to be carried by the window frame and to catch a shade supported on the brackets as the sash moves in one direction and release the shade from the brackets and hold the shade in position to be picked up by the brackets as the sash ascends.

3. Window shade fixtures comprising shade supporting brackets adapted to be carried by the window sash and open at their upper sides, and shade releasing and holding means adapted to be secured to the window frame and to extend into the path of a shade carried by the brackets and to catch the shade as the sash descends and hold the shade in position to be picked up by the brackets as the sash ascends.

4. Window shade fixtures comprising two shade supporting brackets adapted to be secured to opposite sides of the window sash, and each having a short overhanging arm, the brackets being arranged to support a window shade with the roller spindles underneath the respective overhanging arms,

and shade releasing and holding means comprising two guide members adapted to be secured to opposite sides of the window frame in position to be engaged by the respective roller spindles and to guide the roller spindles from beneath the overhanging arms as the sash descends and thereby release the shade from the brackets and to hold the shade in position to be picked up by the brackets as the sash ascends.

5. Window shade fixtures comprising two shade supporting brackets adapted to be secured to opposite sides of the window sash and each having a short overhanging arm, the brackets being arranged to support a window shade with the roller spindles underneath the respective overhanging arms, and two grooved members adapted to be secured to opposite sides of the window frame in such position that the ends of the roller spindles engage in the grooves of the respective grooved members, the grooves being so shaped that as the sash descends they guide the roller spindles from beneath the overhanging arms and thereby release the shade from the brackets, and hold the shade with the spindles in the ends of the respective grooves.

6. In combination with a vertically slidable window sash and a frame therefor, two window shade supporting brackets secured to the sash at opposite sides thereof and each having a short overhanging arm, the brackets being arranged to support a window shade with the roller spindles resting upon the respective brackets and movable longitudinally of the brackets to positions underneath the overhanging arms and free therefrom, and two grooved members secured to the window frame at opposite sides of the window in such position that the ends of the roller spindles engage in the grooves of the respective grooved members, the grooves being so shaped that as the sash descends they guide the roller spindles from beneath the overhanging arms and thereby release the shade from the brackets, the spindles being supported in the ends of the respective grooves in position to be caught by the brackets as the sash ascends and guided underneath the overhanging arms by the grooves as the shade is moved upwardly with the sash.

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

CHARLES W. HUTCHINSON.

Witnesses:

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