(No Model.)

A. P. SPILLER.

STORM WINDOW FASTENER.

No. 604,945. Patented May 31, 1898.

FIG. 1.

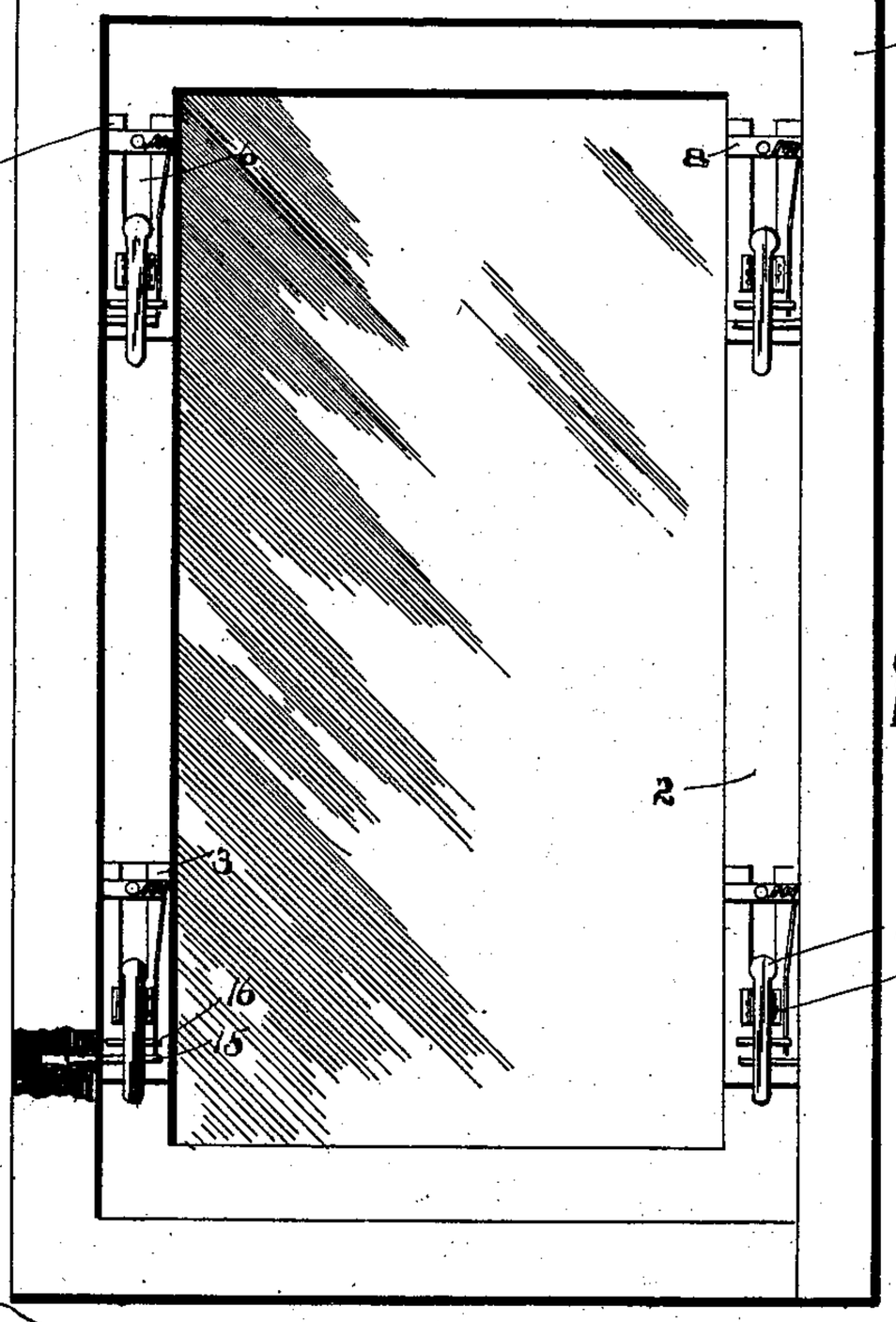


FIG. 3.

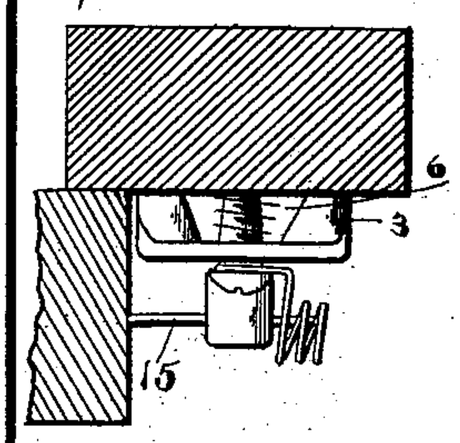


FIG. 2.

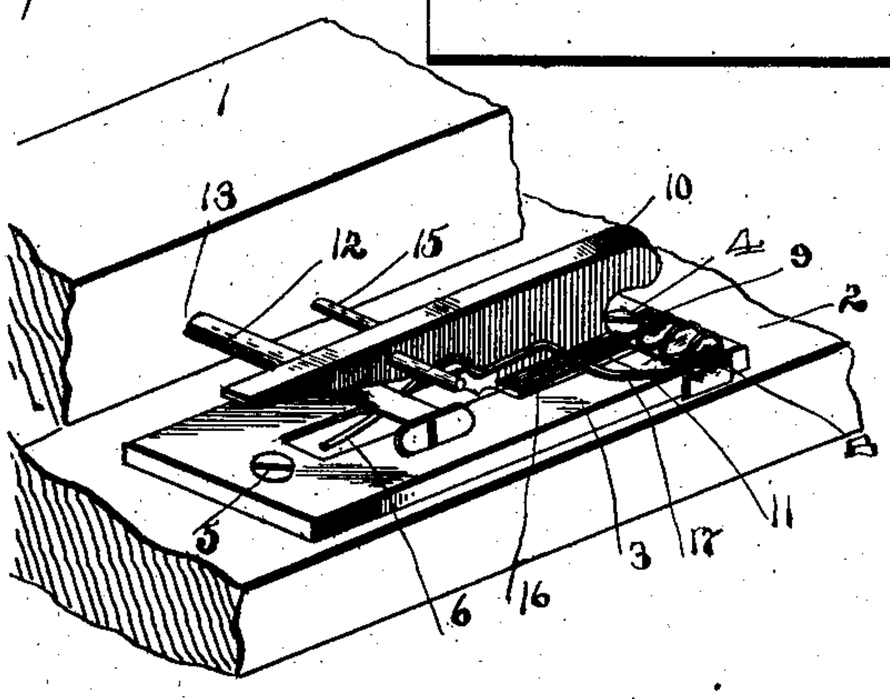
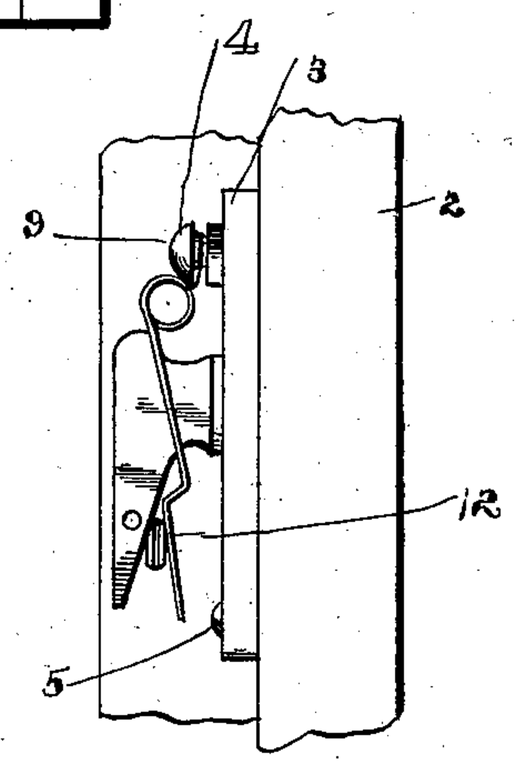


FIG. 4.



Witnesses
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ARTHUR PERLEY SPILLER, OF MANCHESTER, NEW HAMPSHIRE.

STORM-WINDOW FASTENER.

SPECIFICATION forming part of Letters Patent No. 604,945, dated May 31, 1898.

Application filed August 28, 1897. Serial No. 649,867. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR PERLEY SPILLER, a citizen of the United States, residing at Manchester, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Storm-Window Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to novel and useful improvements in storm-window fasteners; and it has for its object to provide a simple and inexpensive device of this character and one that will be durable and efficient in operation.

A further object is to provide a device of this character that will enable the storm-window to be automatically attached to the window-frame or sash and one that will enable the window to be readily attached and removed from the outside or inside of the frame.

With these and other objects in view, which will become apparent in the course of the following description, all looking toward improving and simplifying devices of this character generally, the invention consists in the novel combination and arrangement of simple parts that will be hereinafter fully described.

I am enabled to accomplish the objects of my invention by the simple means illustrated in the accompanying drawings, in which—

Figure 1 is a front view of a window-frame with my improved device applied thereto. Fig. 2 is a perspective view of the portion carried by the side bar of the sash. Fig. 3 is a top plan view of the device, showing so much of the window-frame and sash as is necessary to illustrate the device; and Fig. 4 is an end elevation of the portion carried by the sash, showing the means for retaining the sliding bolt in position therein.

Referring to the drawings, the numeral 1 indicates the window-frame casing, and the numeral 2 designates the sash of the storm-window. Firmly secured to the side bars of the sash of the storm-window are a plurality of metallic plates 3, having open slots 6 open at one end, as indicated by the numeral 7. Extending across the upper ends of the plates are clips 8, perforated centrally for the passage of screws 9, which extend through said clips and through the slot 6 into the side bars of the sash.

The numeral 10 indicates a plurality of similarly-constructed bolts provided on their under sides, near the upper ends thereof, with laterally-extending flanges 11, adapted to rest upon the upper sides of the plates adjacent to the slots therein. The under edges of the slots are inclined or dovetailed, as shown in Fig. 3, for the reception of the lower portions of the sliding bolts. The said lower portions of the bolts are dovetailed or formed with oppositely-beveled or inclined shoulders adapted to fit snugly against the inclined edges of the under sides of the plates.

The numeral 12 designates a plurality of laterally-extending bolts which rest in circular recesses 13 in the inner edges of the frame-casing. I preferably provide the bolts with heads, and said bolts are adapted to be forced into the recesses 13 when they are not desired for use. As shown more clearly in Fig. 2 of the drawings, the vertically-sliding bolts are provided with inclined under edges adapted to slide upon the laterally-extending bolts approximate to the heads thereof, thus drawing the storm-window in close contact with the casing-frame. I provide the vertically-sliding bolts with short laterally-projecting pins 15, which are adapted to rest upon shoulders 16, formed in spring-arms 17, having their upper ends secured to the screws 9, and it will be noted that the springs will keep the sliding bolts normally elevated until it is desired to apply the storm-window.

In operation, assuming all of the sliding bolts to be held in elevated position and the bolts 12 extended laterally, the storm-window is brought into position with the plates opposite the bolts 12, when the sash is drawn inwardly, bringing the ends of the spring-arms in contact with said bolts 12, causing the vertically-sliding bolts to be released simultaneously, when they will drop by gravity and extend across the bolts 12, thus preventing the storm-window from moving outwardly. The bolts are then engaged by the hand and slid farther downwardly, thus drawing the storm-window in close contact with the window-frame casing.

It is obvious that the invention herein set forth is susceptible to minor changes involving mechanical skill which may be made within the scope of the invention without departing from the spirit thereof. I therefore do not wish to be understood as limiting myself to the precise construction shown in the drawings.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described device comprising a plate having an elongated slot therein open at one end, said plate being adapted to be secured to the sash of the storm-window, a bolt maintained in said slot and adapted to slide vertically therein, said bolt being provided near its lower end with a laterally-extending lug, a spring-arm secured to the plate and provided with a shoulder adapted to engage said lug and hold the sliding bolt in elevated position, a laterally-extending bolt upon the window-frame adapted to be engaged by the spring-arm to cause the same to release the sliding bolt and permit the same to move downwardly across the laterally-extending bolt, substantially as described.

2. The herein-described device comprising a plurality of plates having elongated slots therein open at one end and adapted to be secured to the sash of the storm-window, said plates being provided with beveled under sides approximate to the slots, sliding bolts provided with beveled shoulders adapted to fit snugly against the inclined under edges of the plates, laterally-extending flanges integral with the shoulders and adapted to rest upon the upper sides of the plates approximate to the slots, said bolts being provided with downwardly-extending portions having inclined under sides, laterally-extending bolts provided upon the inner edges of the window-frame, lateral projections upon the vertically-sliding bolts, spring-arms secured to the plates and having shoulders thereon adapted to engage the lateral projections, said spring-arms being adapted to engage the laterally-extending bolts to permit the sliding bolts to fall across the laterally-extending bolts, substantially as described.

3. In the herein-described device, the combination with the portion adapted to be secured to the frame of the storm-window and comprising sliding bolts having inclined under sides, of longitudinally-sliding bolts situated within laterally-extending recesses in the window-frame to which the storm-window is to be applied, said bolts being provided with heads and situated to engage said inclined under sides of the storm-window bolts, and means for limiting the longitudinal movement of said bolts, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ARTHUR PERLEY SPILLER.

Witnesses:
JOHN K. WILSON,
LUCY M. LOWD.