(No Model.)

J. B. OKEY.

SASH HOLDER.

No. 485,131. Patented Oct. 25, 1892.

Fig. 1.

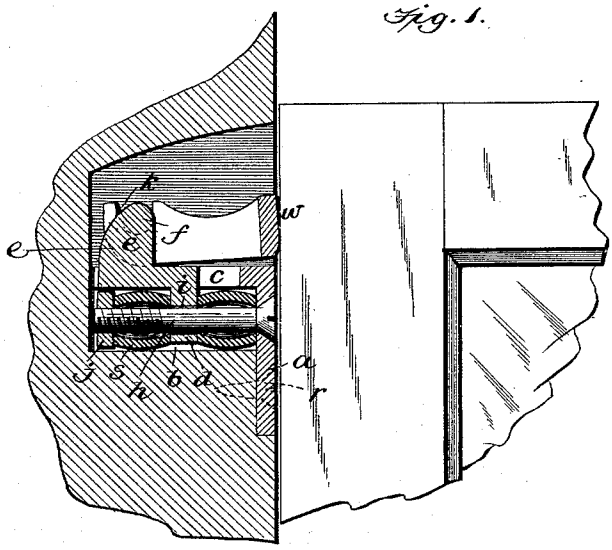


Fig. 2.

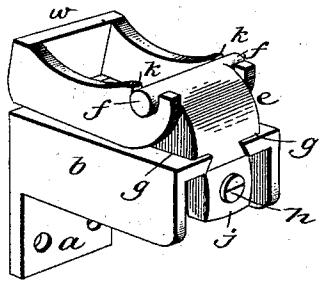


Fig. 3.

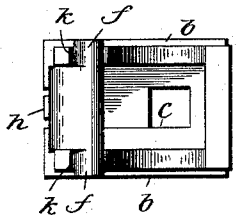


Fig. 4.

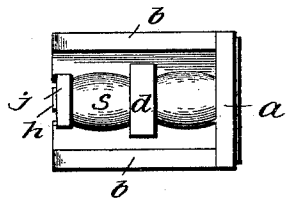
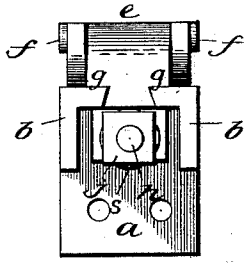


Fig. 5.



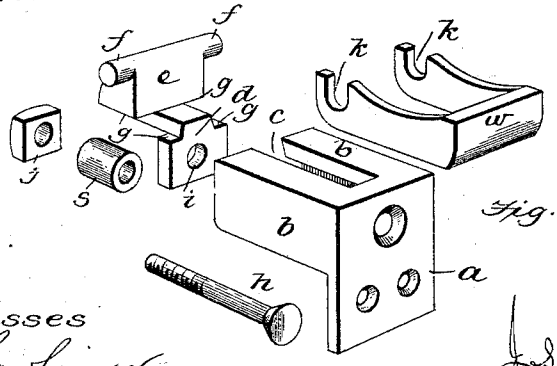


Fig. 6.

Witnesses
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Joseph B. Okey
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C

UNITED STATES PATENT OFFICE.

JOSEPH B. OKEY, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO JAMES W. REDMAN, OF SAME PLACE.

SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 485,131, dated October 25, 1892.

Application filed July 16, 1892. Serial No. 440,219. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH B. OKEY, a citizen of the United States, and a resident of Indianapolis, in the county of Marion and State or Indiana, have invented certain new and useful Improvements in Sash-Holders, of which the following is a specification.

I have produced a device for holding window-sashes when open which is designed to take the place of the sash weights and cords. The device operates by friction against the sash to hold it in any desired position and is secured in the window frame or casing. Its construction embraces a swinging detent pivotally mounted upon an adjustable carrier, which is seated upon a spring-cushion, and has provision for adjusting the detent to give it the proper frictional contact and pressure, so that while such pressure will hold the sash open it will permit the sash to be opened and closed against such pressure the same as if the sash were hung upon weights, as I will now describe in connection with the accompanying drawings, in which—

Figure 1 shows in vertical section so much of a window frame or casing and a window-sash as illustrates my new sash-holder in the position it occupies to hold the sash when open. Fig. 2 shows the device in perspective when looking at its inner end. Fig. 3 is a top view, Fig. 4 is a bottom view, and Fig. 5 is a rear end view, of the device; and Fig. 6 shows the several parts of the device separated.

The device consists of three parts, and is seated in a deep recess in the window frame or casing between the sash-strips, so that the holding or detent part will swing out beyond the frame-surface in position to engage the vertical side of the sash-bar and hold the sash by friction. The fixed part of the device is an L-shaped casting and is secured by its vertical flange part *a* in a recess the thickness of the flange in the casing, so that it will be flush with the face of the casing. Its horizontal part *b* extends into the deep recess in the frame and has a slot *c* at right angles to the flange part. Within this slot is seated an adjustable bearing part having its one end *d* standing inward parallel with the vertical flange part *a* and its other end *e* standing above the horizontal part *b* and formed with horizontal pivot-bearing ends *f f*, like the letter T. This bearing part is held within its seating-slot by a dovetail construction and shoulders *g g* at each end above and below the horizontal part *b*. A screw *h*, the head of which is seated in the vertical flange part *a*, passes horizontally through a hole *i* in the downward-standing end *d* of the bearing part and has a nut *j* on its inner end, and between the latter and the said end *d* a spring *s* is confined upon the screw, so as to form a spring-cushion for the bearing part of the friction-detent *w*. The friction-detent is U-shaped, and at its ends has open notches *k*, by which it is mounted on the pivot-bearing ends *f*, so as to have a swinging movement thereon toward and from the horizontal part of the fixed casting *b*, over which it hangs. This detent is free to swing vertically at its outer end within the deep recess in the frame, and its free end is slightly convex and stands in position to be lifted freely by the upward movement of the sash within the recess. The least descent of the sash allows the detent to drop toward a horizontal position and engage the sash and hold it by friction with an eccentric or cam-like action. As the pressure of the sash upon the detent is exerted inwardly upon the pivot-bearings of the detent-carrier, such pressure is resisted by the spring-cushions, and according to the adjustment of said detent-carrier will be the degree of resistance offered by the said spring-cushion. In this way the resistance of the detent can be adjusted to suit the size and weight of the sash pressing against it. In this way, also, the detent can be adjusted to project more or less beyond the face of the window-frame, so as to give more or less of a cam or eccentric action upon the sash. This adjustment is made by the screw, which when turned to compress the spring-cushion the latter forces the detent out and at the same time increases its resistance to the pressure of the sash against which it binds. In this adjustment of the detent its carrier slides in the slot *c* in the fixed part, and the adjustment can be made by moving the sash so as to uncover the screw-head, and by then

turning it to the right or to the left the detent will be set in or out, its inward movement diminishing the tension of the spring and its outward movement increasing it.

The device may be set into a recess made in the sash to act against the window-frame, and when fitted in place it is secured by screws *r* in its outer flanged part.

While the detent is free to swing above a horizontal position to release its pressure upon the sash when the latter is raised, the fixed part of the device forms a stop to limit the descent of the engaging end of the detent, so that it cannot fall below a horizontal position, in which its maximum pressure is exerted upon the sash to hold it, and this is its position when the sash is closed, and the latter is thereby pressed in its casing, so that it will not rattle.

The parts of the device are put together without fastenings, and the detent is hung by its notched ends on the pivots, so that it cannot become detached when once the device is set in place, while the detent-carrier is slid in the slotted seat of the fixed part at the open end of said slot. The spring may be of rubber, or it may be spiral, and is placed so as to form a cushion-support for the part to which the detent is pivoted.

In a window-sash-holding device I claim as my improvement—

1. The swinging detent, in combination with a carrier to the upper side of which it is pivoted at its inner end and a spring-cushion for sustaining said carrier against pressure of the sash upon the outer engaging end of the detent, substantially as described.

2. The combination, with a fixed part having a slot, of a slide part seated within said slot, a sash-engaging swinging detent pivotally hung upon one end of said slide part, a spring cushioning said slide part, and a screw-bolt connecting the fixed and the slide parts for setting the detent in or out against the pressure of said spring, substantially as described.

3. The combination, with the fixed part having a slot in its top side, of a slide part seated in said slot, having its inner end standing above said top part formed with pivot-bearings and its other end standing below said top part, a screw-bolt in the outer end of the fixed part, passing through the downward-standing slide part, a nut on said bolt between the nut and the slide part through which said screw passes, and a sash-engaging swinging detent pivotally hung upon the pivots of said slide part, substantially as described.

4. A sash-stop comprising a fixed L-shaped casting having a slot in its upper side, a slide part dovetailed in said slot, having its inner end standing above said slot formed with horizontal pivots, its other end standing below said slot, a screw-bolt in the fixed part, passing through this lower slide part, a nut and a spring-cushion on said bolt behind said lower slide part, and a U-shaped detent pivotally hung upon said pivots and having a convex sash-engaging end, substantially as described.

5. The combination of a swinging detent having a friction-engaging end with spring-sustained pivot-bearings upon which said detent is hung and a stop to limit the descent of the engaging end of said detent, substantially as described.

his
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mark

Witnesses:
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HARRISON WYATT.