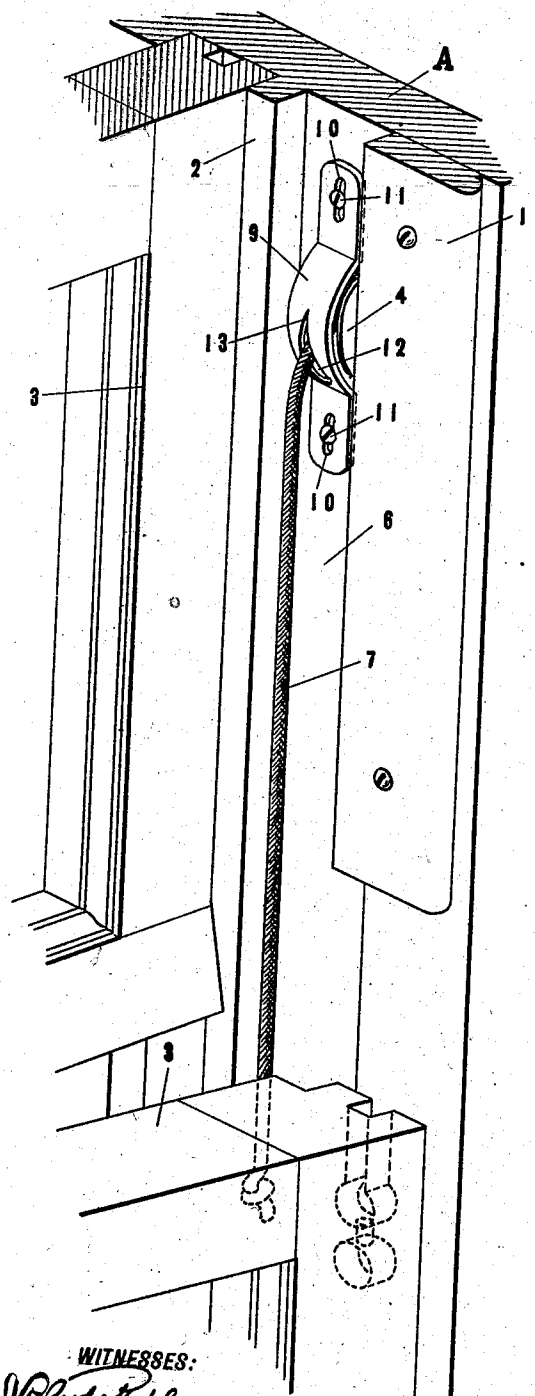
No. 893,011.

G. H. PARKER. PATENTED JULY 14, 1908.

SASH CORD OR CHAIN HOLDER.

APPLICATION FILED FEB. 2, 1906.

2 SHEETS—SHEET 1.



WITNESSES:

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C. A. Wiesey.

Fig. 1.

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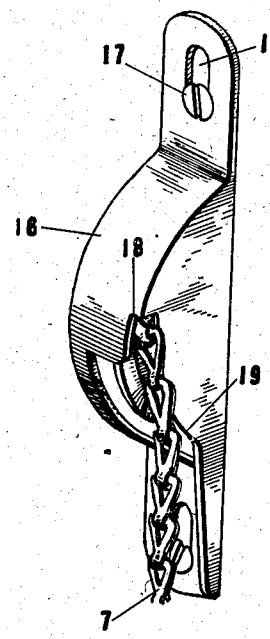


Fig. 2.

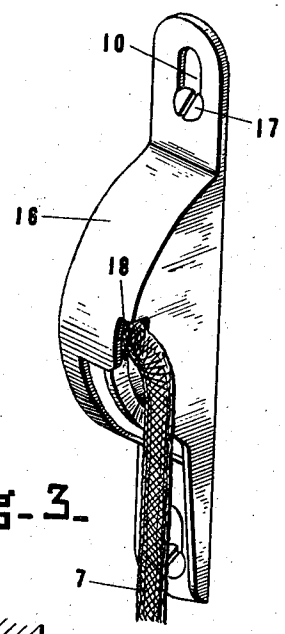


Fig. 3.

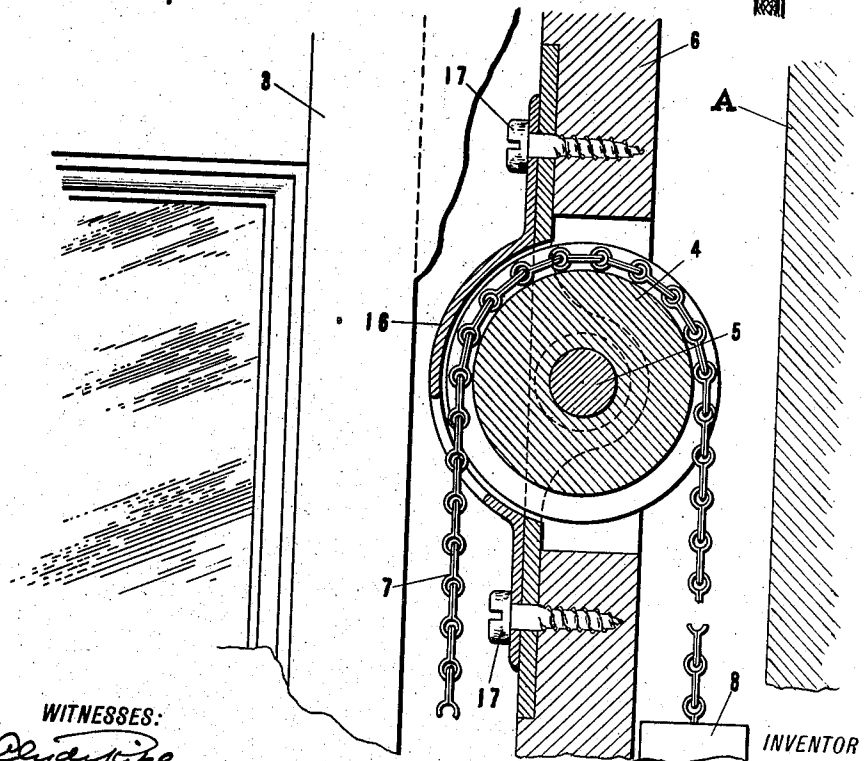


Fig. 4.

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UNITED STATES PATENT OFFICE.

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SASH CORD OR CHAIN HOLDER.

No. 893,011. Specification of Letters Patent. Patented July 14, 1908.

Application filed February 2, 1906. Serial No. 299,107.

To all whom it may concern:

Be it known that I, GEORGE HENRY PARKER, residing at Arlington, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Sash Cord or Chain Holders, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to window construction, and one of its objects is to provide means for holding the suspending cord or chain for a slidable sash when the same has been removed from the frame or swung therefrom to permit of access to both sides of the sash for cleaning the glass or for other purposes.

Other objects will be in part obvious and in part pointed out hereinafter.

The invention accordingly consists in the features of construction, combinations of elements and arrangement of parts which will be exemplified in the device hereinafter described and the scope of the application of which will be indicated in the following claims.

In the accompanying drawings, wherein are illustrated several of the preferred embodiments of my invention, Figure 1 is a view in perspective showing one application thereof. Fig. 2 is a similar view showing still another embodiment of my invention wherein a chain is employed in the suspension of a sliding sash. Fig. 3 is a view in perspective of the embodiment illustrated in Fig. 2, but showing a sash suspending cord engaged thereby. Fig. 4 is a transverse sectional view through the pulley stile of a window frame showing a suspending chain running thereover and connected to the sash-balance weight, and one manner of mounting the cord or chain holding device to the stile.

Similar reference characters refer to similar parts throughout the several views of the drawings.

In order that the objects and advantages sought to be attained by my invention may be more clearly understood, it may be noted that when a sliding sash has been removed or swung from its frame and disconnected from its balancing means, much trouble and annoyance has heretofore been caused by the suspending cord or chain running upward in the frame under the influence of the balancing means. In eliminating this difficulty I have, therefore, found it desirable to provide a device located upon the pulley stile and so constructed that when the sash is removed or swung from its frame and disconnected from its cord or chain, said device will automatically engage said cord or chain and hold the same firmly against movement, so that when the sash is again positioned in the frame the usual knot or other sash connecting device upon the cord or chain will be in a position where it may readily be inserted in the usual opening provided in the edge of the sash rail. Other advantages secured by my invention will be apparent from the following description.

Referring now to the drawings, A indicates a portion of a window frame provided with the usual front and back stops 1 and 2 respectively, between which a sliding sash 3 is adapted to slide. The usual sash pulley 4 is journaled at 5 in the stile 6, and over this pulley is adapted to run a sash suspending cord or chain 7, to one end of which is secured the balance weight 8, the other end thereof being connected to the sash by means of a knot or by other means in an opening provided in the edge of the side rail thereof. The construction above described is commonly employed in the suspension of sliding sashes.

Referring now particularly to Fig. 1, 9 indicates an arched plate the base of which is provided with elongated slots 10, through which screws 11 extend, said screws being driven into a pulley stile. The arched portion of said plate extends about the pulley, and its position with respect to the pulley may be regulated through the provision of the elongaged slots 10. Extending longitudinally of a slot 12 in the arched portion of plate 9 is a downwardly extending V- or wedge-shaped recess 13, through which the sash suspending rope or chain passes when running over pulley 4 during sliding movements of the sash.

In the operation of this embodiment of my invention, which should to some extent be clear from the above description, it will be seen that by swinging the sash inward a short distance, as shown by Fig. 1, the cord or chain will automatically ride up the inner inclined edge of slot 13, and when said rope or chain is disengaged from the sash, as by removing the knot or other device from the opening in the edge of the side rail thereof,

the rope or chain will be found to be wedged between the converging walls of the upper portion of said slot, and thus be firmly held against movement until released, as when the cord or chain has been reëngaged with the sash and the sash swung into place.

In Figs. 2 and 4 respectively I have shown a hollow arched plate 16 positioned about the sash pulley and secured to the pulley stile by screws 17, as shown in the embodiment illustrated in Fig. 1. Plate 16 is provided at its lower portion with an aperture through which the suspending chain or cord runs when the sash is slid in either direction in the frame, and leading upwardly from this aperture is a substantially wedge-shaped slot 18 formed by the front and inner sides of the plate. The operation of this embodiment of my invention is substantially the same as set forth in the description of those above described, it being understood that the rope or chain will automatically be wedged between the walls of slot 18 when the sash is swung inwardly from the frame. It may also be noted that in this embodiment the inner flange of the sash pulley aids in guiding the cord up the curved surface 19 of the plate which leads to slot 18.

It will be understood, of course, that a similar arrangement is provided upon the opposite side of the window frame to engage and hold the balancing cord or chain on the opposite side of the sash, and that a similar set of devices is employed to hold the suspending means for the upper sash.

It will accordingly be seen that I have provided means well adapted to attain the objects sought, through the provision of which the suspending chains or cords of window sashes are maintained in a convenient position to effect a connection between the suspending means and the sashes. An important advantage presents itself in that the suspending cords or chains are automatically engaged and held against movement when the sashes are merely swung inwardly from the frame. It will also be apparant that in constructions wherein the swinging sashes are not employed, the cords or chains may be readily engaged and held against movement by merely grasping the ends thereof, releasing the tension and then, by moving the same outwardly or laterally with respect to the holding devices, the cords or chains will automatically engage in the V-shaped slots and be held against movement.

While in the embodiments shown herein I have shown the sash-balancing cords or chains provided with balancing weights, it is obvious that the devices could be equally well used in constructions wherein spring-drums or other balancing means were provided.

In the specification and claims I have used the word "sash" in a broad sense to denote any slidable member adapted to close an opening in a wall.

As many changes could be made in the above construction and many apparently widely different embodiments of my invention could be made without departing from the scope thereof, I intend that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

I desire it also to be understood that the language used in the following claims is intended to cover all of the specific and generic features of the invention herein described and all statements of the scope of the invention, which, as a matter of language, might be said to fall therebetween.

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

1. In combination, a frame, a sash slidably mounted therein, a member comprising a cord or chain for suspending the sash, a pulley over which the suspending member runs, and a device positioned about the pulley adapted, independent of the pulley, to engage and hold said suspending member when the sash is removed from the frame and said suspending member disconnected therefrom.

2. In combination, a frame, a sash slidably mounted therein, a member comprising a cord or chain for suspending the sash, a pulley over which the suspending member runs, and a device positioned about the pulley provided with a wedging slot, the walls of which are adapted to engage opposite sides of said suspending member and hold the same stationary when the sash has been removed from the frame and said suspending member disconnected therefrom.

3. In combination, a frame, a sash slidably mounted therein, a member comprising a cord or chain for suspending the sash, a pulley over which the suspending member runs, and a device positioned about said suspending member provided with a wedging slot, the walls of which are adapted to engage opposite sides of said suspending member when the sash has been removed from the frame and said suspending member disconnected therefrom, said device being provided with means for guiding said suspending member to said slot.

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

GEORGE HENRY PARKER.

Witnesses:
C. H. WILSON,
H. M. SEAMANS.