C. H. WESTEN.

SASH HOLDER.

APPLICATION FILED NOV. 5, 1907.

1,001,233. Patented Aug. 22, 1911.

Fig. 1.

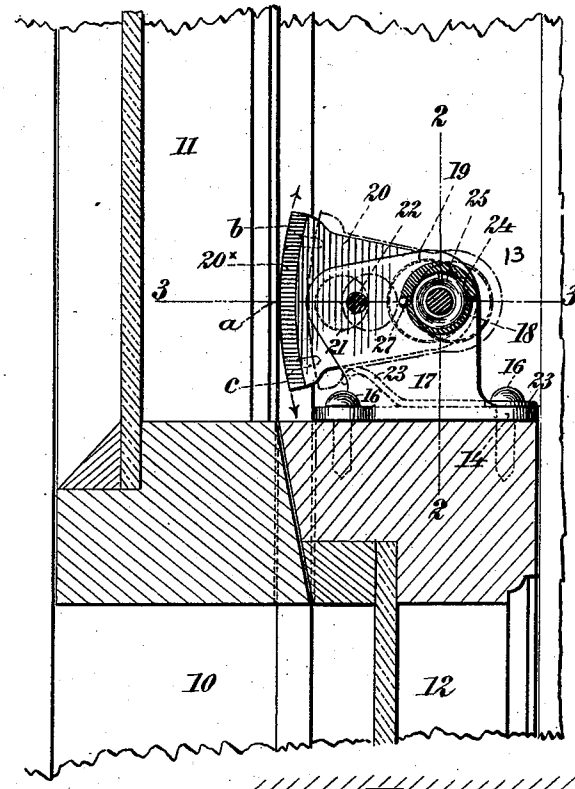

Fig. 2.

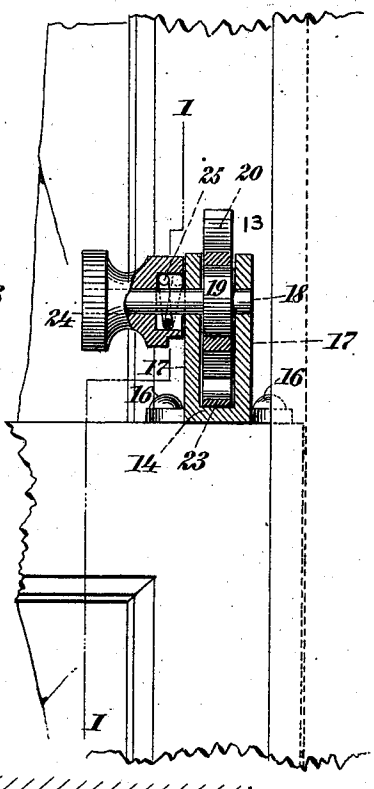

Fig. 3.

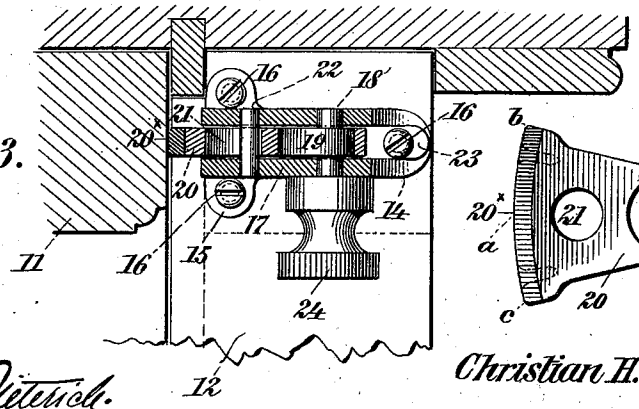

Fig. 4.

WITNESSES:

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SASH-HOLDER.

1,001,233. Specification of Letters Patent. **Patented Aug. 22, 1911.**

Application filed November 5, 1907. Serial No. 400,867.

To all whom it may concern:

Be it known that I, CHRISTIAN H. WESTEN, a citizen of the United States, residing at West Hoboken, Hudson county, in the State of New Jersey, have invented certain new and useful Improvements in Sash-Holders, of which the following is a full, clear, and exact specification.

My invention relates to means for locking or securing windows, doors and similar structures, and the same has for its object more particularly to provide a simple, efficient and inexpensive apparatus which may be readily secured in position upon a door or window by means of which said door or window may be firmly held or secured to its closed, open, or any intermediate position.

Further, said invention has for its object to provide an apparatus which may be readily adjusted so that the same will not prevent or interfere with the ordinary use or operation of the door or window.

Further, said invention has for its object to provide an apparatus which may be readily adjusted to its operative position, and when so adjusted the same will be caused by a slight movement in either direction of the member or part carrying said apparatus to engage another member or part, and thereby hold said parts firmly locked in position relatively to each other.

To the attainment of the aforesaid objects and ends my invention consists in the novel details of construction, and in the combination, connection and arrangement of parts hereinafter more fully described and then pointed out in the claims.

In the accompanying drawings forming part of this specification, wherein like numerals of reference indicate like parts, Figure 1 is a section taken on the line 1—1 of Fig. 2, showing a portion of a window frame and sashes therein, and one form of apparatus constructed according to and embodying my invention applied thereto; Fig. 2 is a section taken on the line 2—2 of Fig. 1; Fig. 3 is a top view, partly in section, taken on the line 3—3 of Fig. 1, and Fig. 4 is a side view of the eccentric member or cam detached from the frame.

In said drawings 10 designates a portion of a window casing, 11 the upper sash, and 12 the lower sash.

13 denotes the lock which is secured upon the upper edge of the lower sash 12 adjacent to one of its ends, and the same consists of a frame comprising a flat base 14 having a flat transverse portion 15 at its forward end. Both of the ends of said transverse portion 15, and the rear end of said base 14 are provided with apertures to receive screws 16, 16 for securing said frame to a window sash. At the opposite longitudinal edges of said base 14 are integral upwardly projecting side plates 17, 17, and in said side plates adjacent to one end of the frame is mounted a shaft 18 having an eccentric 19 fixed thereon intermediate said side plates 17, 17.

20 denotes a segmental eccentric member or cam which is mounted at one end upon the eccentric 19 fixed on the shaft 18, and has its outer curved end projecting beyond the edge of said frame. Upon the outer curved end of said eccentric member or cam 20 is secured a facing $20^{\times}$ of rubber or other material which serves to protect the door or window frame with which said cam 20 contacts, and at the same time increase the friction between said parts. Adjacent to its projecting end said eccentric member or cam 20 is provided with a circular aperture 21 through which extends a pin 22 having its ends secured in the side plates 17, 17 by means of which the vertical movement of said eccentric member or cam 20 is limited in both directions.

23 denotes a spring arranged intermediate the side plates 17, 17 and has one end secured to the base 14 by the attaching screw, and its other or free end bent upward and contacting with the lower edge of the eccentric member or segmental cam 20 whereby to support the same normally in a substantially horizontal position when the same is in its retracted position.

Upon the projecting end of the shaft 18 is fixed a knurled head 24 having its underside chambered to receive a tension member consisting of a single convolution 25 of a coil spring, which serves to hold the eccentric member or cam 20 to either of its adjusted positions. A portion of the circumference of the head 24 along its base is cut away to form a substantially semi-circular recess 26, the ends of which are adapted to contact with a short pin or stop 27 arranged upon the outer surface of the side plate adjoining said head whereby to arrest the rotation of the shaft 18 and eccen-

tric 19 when the eccentric member or cam 20 has reached the limit of its horizontal movement in either direction.

The operation of the apparatus is as follows: In order to lock the sash or sashes of a window, in the closed or open position, or in any intermediate position, it simply becomes necessary to give the head 24 a half turn and thereby rotate the shaft 18, eccentric 19 and shift the eccentric member or cam 20 into its projected position and the middle part of its curved face into operative engagement with the other sash member, as illustrated in full lines at Fig. 1. If either the upper or lower sash be then moved a trifle up or down it will cause the eccentric member or cam 20 to be partially rotated upon the eccentric 19, and as both of the ends *b*, *c*, of its curved face are farther removed from the pivotal center of said eccentric or cam 20 than the point *a*, the said eccentric member or cam 20 will be caused to bind against the window sash contacting therewith and hold the same firmly secured in position, in which it will remain until released of its engagement with said window sash by giving a reverse half turn to the head and thereby retracting the eccentric member or cam to its retracted position, as shown in broken lines at Fig. 1.

It will of course be understood that if either sash be moved up or down it will only be free to move a very short distance until the curved portion or face of the cam adjacent to either end binds against the other sash member. Further, it will be obvious that the invention is not limited in its use to windows, but may be employed also as a stop for doors and analogous structures.

Having thus described my said invention, what I claim and desire to secure by Letters Patent is:

1. An apparatus of the character described, comprising a frame, a cam mounted therein, an eccentric for shifting said cam into operative position, and means for yieldingly supporting the free end of said cam, substantially as specified.

2. An apparatus of the character described, comprising a frame, a shaft mounted therein, an eccentric arranged upon said shaft, a cam on said shaft, means for actuating said shaft whereby to cause said eccentric to shift said cam into and out of operative position, and means for yieldingly supporting the free end of said cam, substantially as specified.

3. An apparatus of the character described comprising a frame, a shaft mounted therein, an eccentric fixed upon said shaft, a cam mounted at one end upon said eccentric and having its other end projecting beyond the end of said frame, means arranged upon said shaft for actuating the same whereby to shift said cam into and out of operative position, a recess in said cam, and means arranged upon said frame passing through said recess for limiting the rotary movement of said cam, substantially as specified.

4. An apparatus of the character described comprising a frame, a shaft mounted therein at one end, an eccentric fixed upon said shaft, a cam mounted at one end of said eccentric, a resilient face secured upon the projecting end of said cam, a circular recess in said cam adjacent to its projecting end, a pin arranged in said casing and traversing said circular aperture, a head secured upon the projecting end of said shaft, means arranged upon said shaft intermediate said head and frame for holding said shaft and eccentric under tension to its adjusted position, a peripheral recess arranged in said head, and a stop on said frame adapted to engage the ends of said peripheral recess whereby to limit the rotary movement of said shaft and eccentric, substantially as specified.

5. An apparatus of the character described, comprising a frame, a shaft mounted in said frame adjacent to one end thereof, an eccentric fixed upon said shaft, a cam mounted at one end upon said eccentric, a resilient section secured upon the outer end of said cam, a circular recess arranged in said cam adjacent to its projecting end, a pin secured in said frame and traversing said circular recess, a head fixed upon said shaft, spring means for holding said shaft and connected parts to their adjusted positions, means for limiting the rotary movement of said shaft and connected parts, and a spring having one end secured upon said frame and having its other end free and in contact with said cam for supporting the same normally in a horizontal position, substantially as specified.

Signed at the city of New York, in the county and State of New York, this nineteenth day of October, nineteen hundred and seven.

CHRISTIAN H. WESTEN.

Witnesses:
ALBERT HARTWIG,
EDWARD HELMUS.