

W. O. HAYS.
SASH AND SCREEN FASTENER.
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899,045.

Patented Sept. 22, 1908.

Fig. 1.

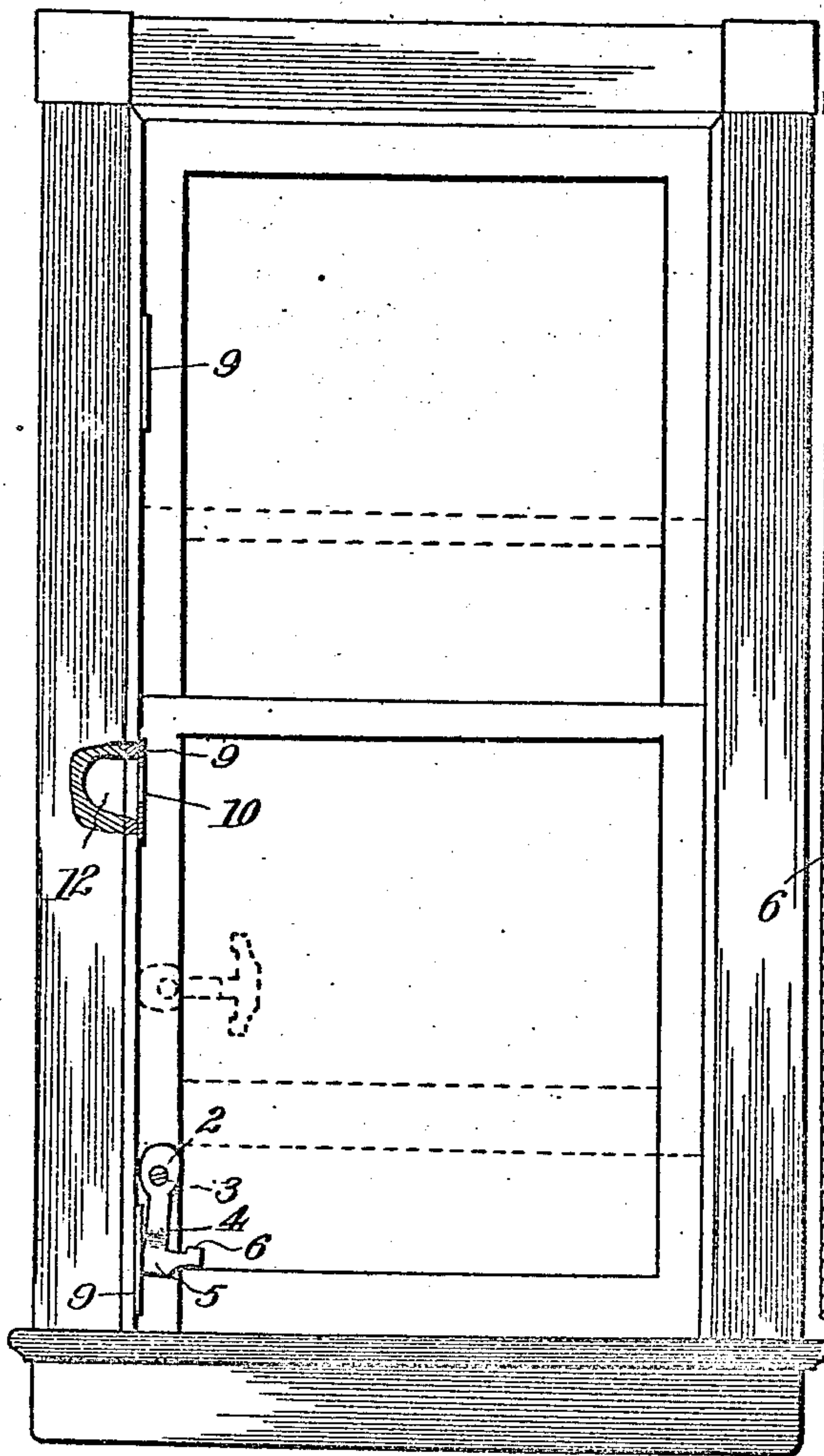


Fig. 2.

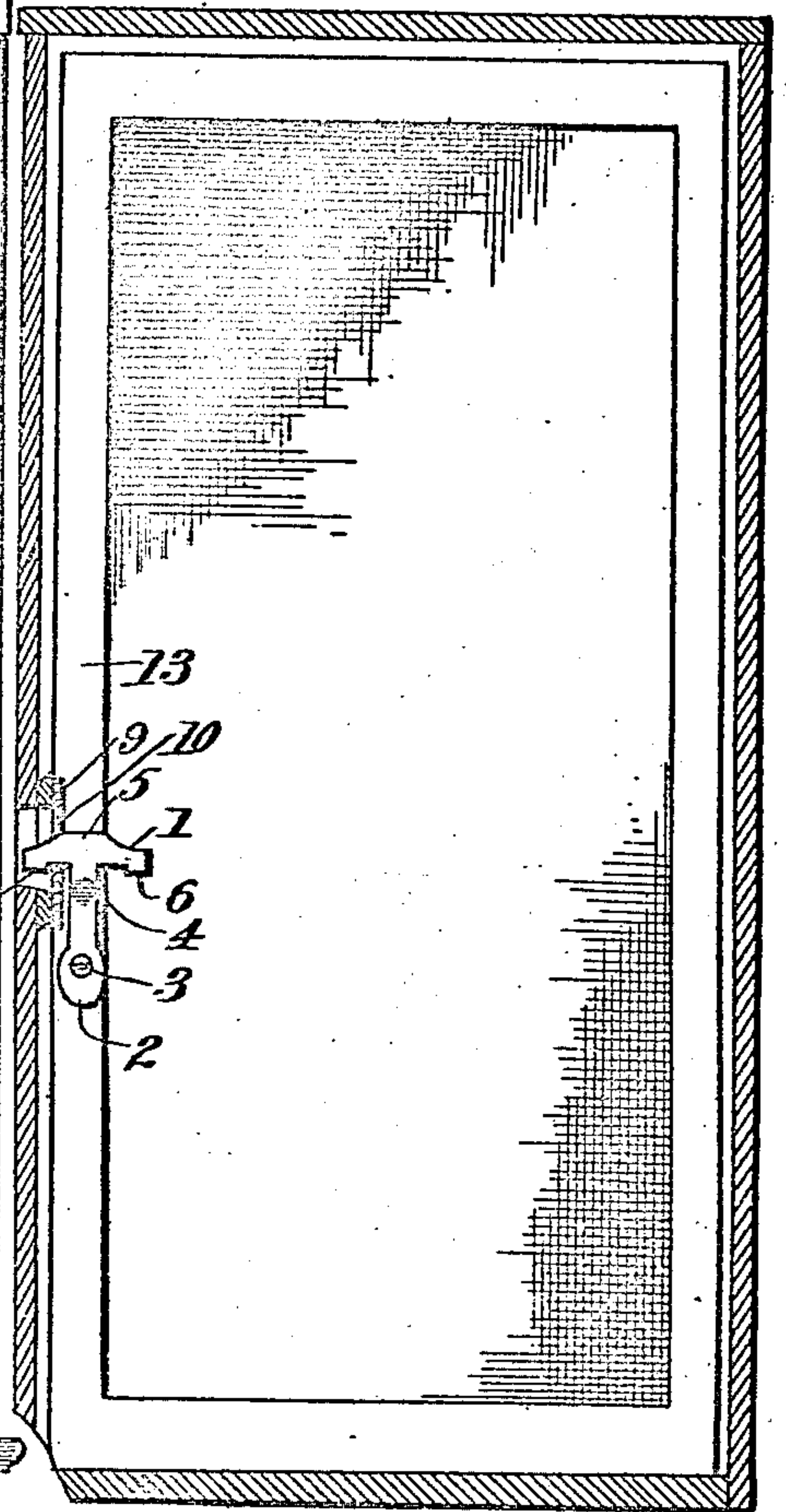
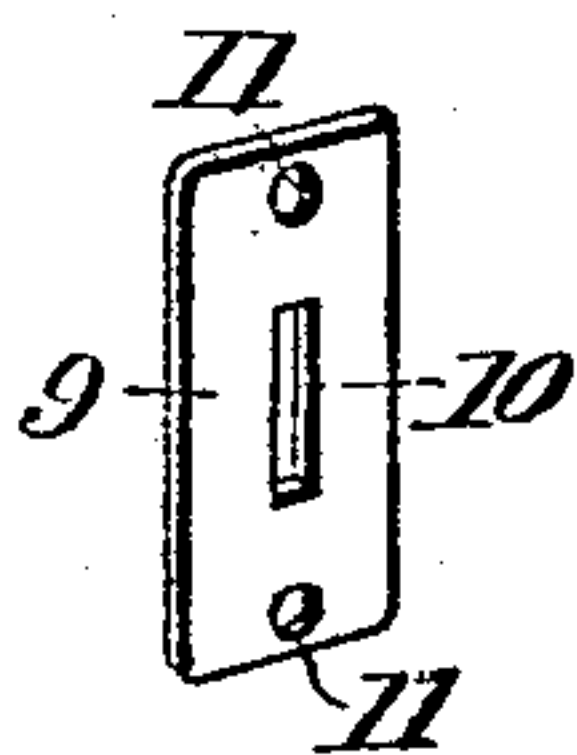


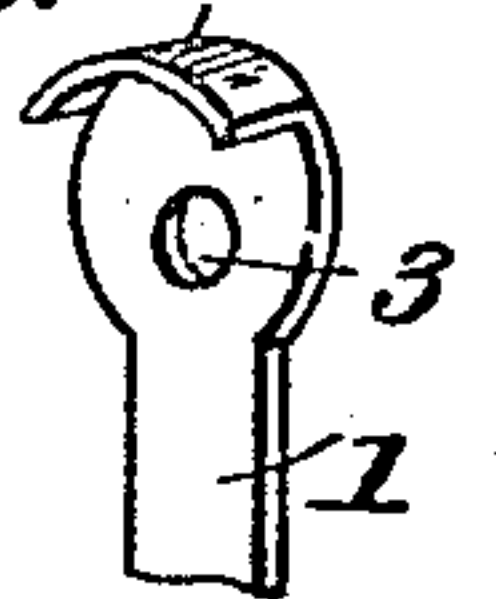
Fig. 4.



Witnesses

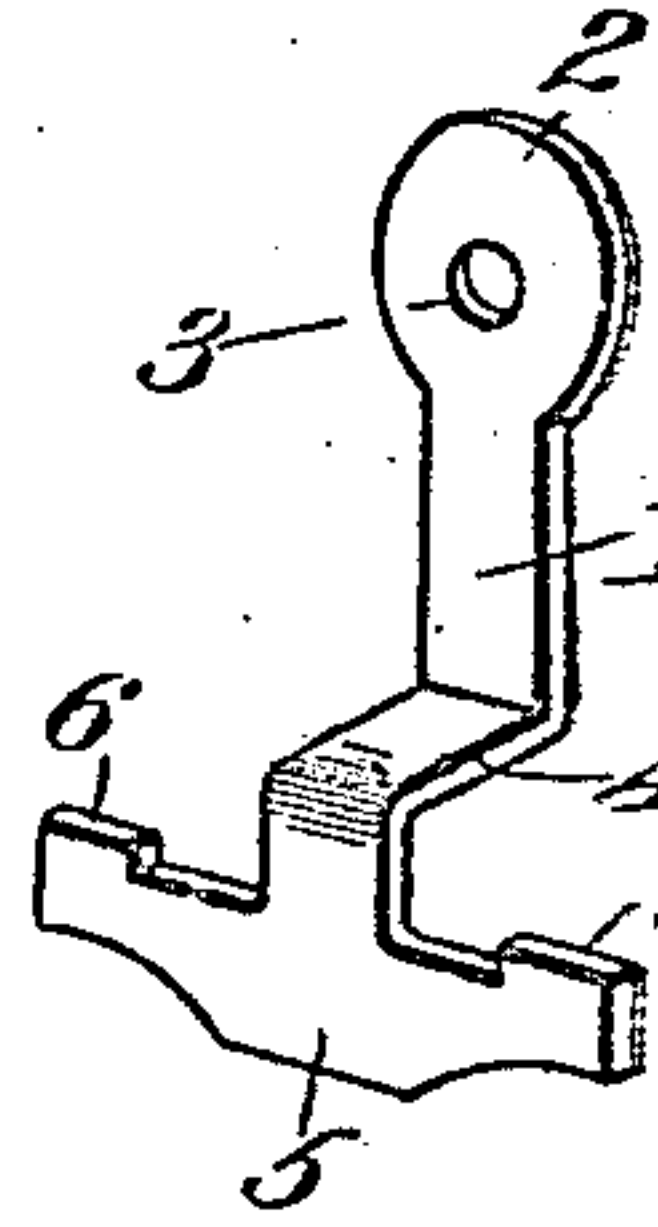
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Fig. 5.



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Fig. 3.



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SASH AND SCREEN FASTENER.

No. 899,045.

Specification of Letters Patent.

Patented Sept. 22, 1908.

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To all whom it may concern:

Be it known that I, WILLIAM ORCHARD HAYS, citizen of the United States, residing at Roosevelt, in the county of Klickitat and State of Washington, have invented certain new and useful Improvements in Sash and Screen Fasteners, of which the following is a specification.

This invention is an improved sash and screen fastener, and is primarily designed for latching and locking swinging screens and the like, as well as sliding window sashes.

The present fastener is complete in itself and is capable of being applied without making any change in the window sash or screen, and is capable of locking the sash open as well as closed.

With these and other objects in view, the present invention consists in the combination and arrangement of parts as will be hereinafter more fully described, shown in the accompanying drawings and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings,—Figure 1 is an elevation of a window frame and sashes having a fastener of the present invention applied thereto, a portion of the frame being broken away to show a keeper with which the fastener is adapted to engage. Fig. 2 is a longitudinal sectional view taken at the outer side of the sashes and showing a hinged screen secured by a fastener of the present invention. Fig. 3 is a detail perspective view of the latch member. Fig. 4 is a detail perspective view of the keeper. Fig. 5 is a detail perspective view of another embodiment of the latch member.

Like characters of reference indicate corresponding parts in each of the several figures of the drawings.

Referring first more particularly to Fig. 3 of the drawings, it will be seen that the latch of the present invention includes a straight shank 1 terminating at one end in an enlargement 2, preferably circular in form and pierced by a central opening 3, thereby providing an eye for the reception of a support upon which the shank is adapted to swing. The free end of the shank is provided with a laterally-disposed arm 4 preferably integral with the shank and bent therefrom. Upon

the outer end of the arm there is a T-head 5 disposed in a plane substantially parallel with that of the shank and having its inner edge terminally shouldered, as at 6.

Upon reference to Fig. 1 of the drawing it will be seen that the fastener or latch is pivotally secured to a sliding sash, such as shown at 7, and is applied to one of the side rails of the sash to which it is secured by a suitable fastening 8, preferably a screw, whereby the T-head is offset laterally from the sash, and the entire latch is capable of swinging in a plane substantially parallel with the sash. For engagement by the fastener or latch there is provided a plurality of keepers 9, one of which has been shown in detail in Fig. 4 of the drawing. Each keeper is a flat metal plate having a central longitudinal slot or opening 10 and terminal perforations 11, the latter being adapted to receive suitable fastenings, whereby the keeper is secured upon the window frame in position to receive one end of the latch or fastener. It will of course be understood that a socket or recess 12 is formed in the frame in alinement with the opening 10 in the keeper, so as to receive the head of the latch.

When the lower sash is closed, one end of the head of the latch engages a lower keeper so as to prevent opening of the sash. The sash can be held in various elevated positions by swinging the latch into engagement with any one of a series of keepers applied to the window frame. The latch may be engaged with a keeper by swinging it above its pivotal support as well as below the same. When used in connection with a sash which is balanced by sash weights the latch merely locks the sash, but when used in connection with a sash which is not balanced the latch also serves to support the sash as well as to lock the same.

I propose to give the enlargement 2 the form of a cam arranged to bear against the window frame when the latch is swung into a predetermined position so as to jam against the window frame and form a temporary support for the window sash at positions intermediate the positively locked positions of the sash. It will of course be understood that the cam or eccentric portion engages the window frame in one position only of the latch, in order to permit of the quick raising and lowering of the sash without interference on the part of the cam.

Upon examination of Fig. 5 of the draw-

ings, it will be noted that I propose to form an arcuate flange 14 upon the outer edge of the enlargement 3 so as to provide an extended bearing of the cam upon the window frame.

5 Upon examination of Fig. 2 of the drawings, wherein 13 designates a swinging or hinged window screen, it will be seen that the present fastener may be applied in substantially the same manner as when used with a
10 window sash.

The purpose of the shoulders 6 is to engage back of the keeper at either end of the slot or opening 10 thereby to prevent the latch from being accidentally sprung out of engagement
15 with the keeper.

From the foregoing description it will be understood that the device of the present invention is exceedingly simple and at the same time effective for the purpose designed.
20 It may be applied without altering the window in any manner, and does not require any particular skill to mount it in place.

What is claimed is:—

1. A fastener of the character described
25 comprising a swinging latch which is pro-

vided at its free end with a laterally-directed arm having a T-head at the outer end of the arm and in substantial parallelism with the shank.

2. As an article of manufacture, a swinging 30 latch having a shank provided at its free end with a laterally directed arm having a T-head at the outer end of the arm in substantial parallelism with the shank, the other end of the shank terminating in a segment having a 35 pivot opening eccentric to the curved surface thereof.

3. A fastener of the character described comprising a swinging shank having a lateral arm at its free end and a T-head upon the 40 outer end of the arm, the head and shank being disposed at opposite sides of the arm, and shoulders upon the inner edge of the head.

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

WILLIAM ORCHARD HAYS.

Witnesses:

J. E. BURDETT,
C. W. SHURTE.