

(No Model.)

F. BURMEISTER.  
FASTENER FOR MEETING RAILS OF SASHES.

No. 528,656.

Patented Nov. 6, 1894.

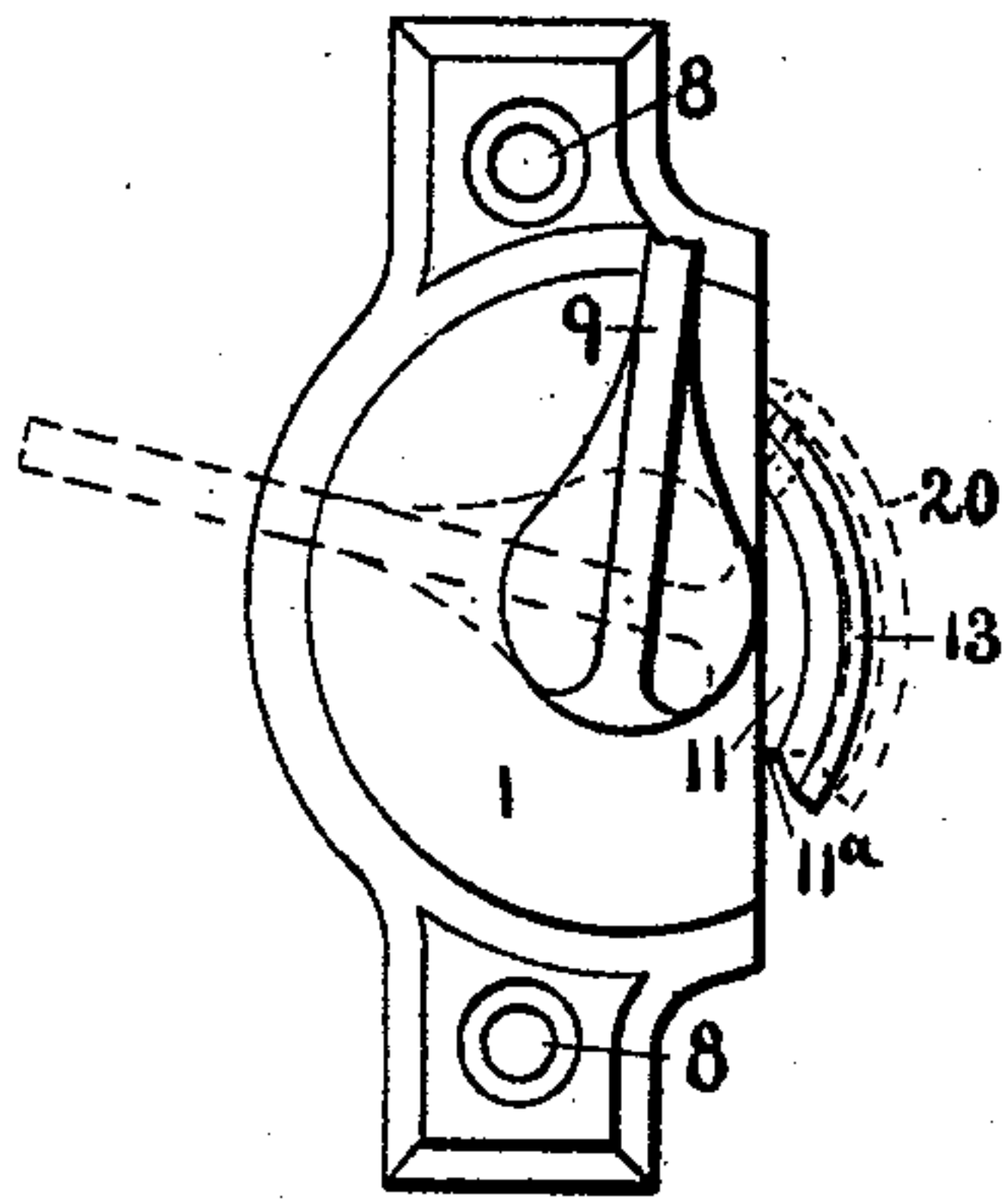


FIG. 1.

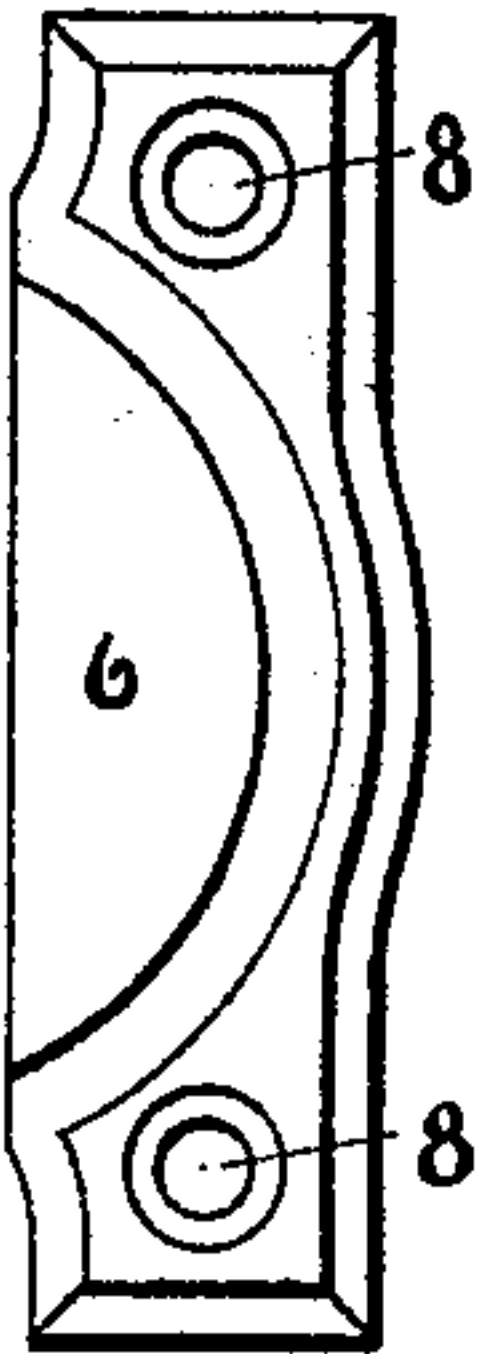


FIG. 2.

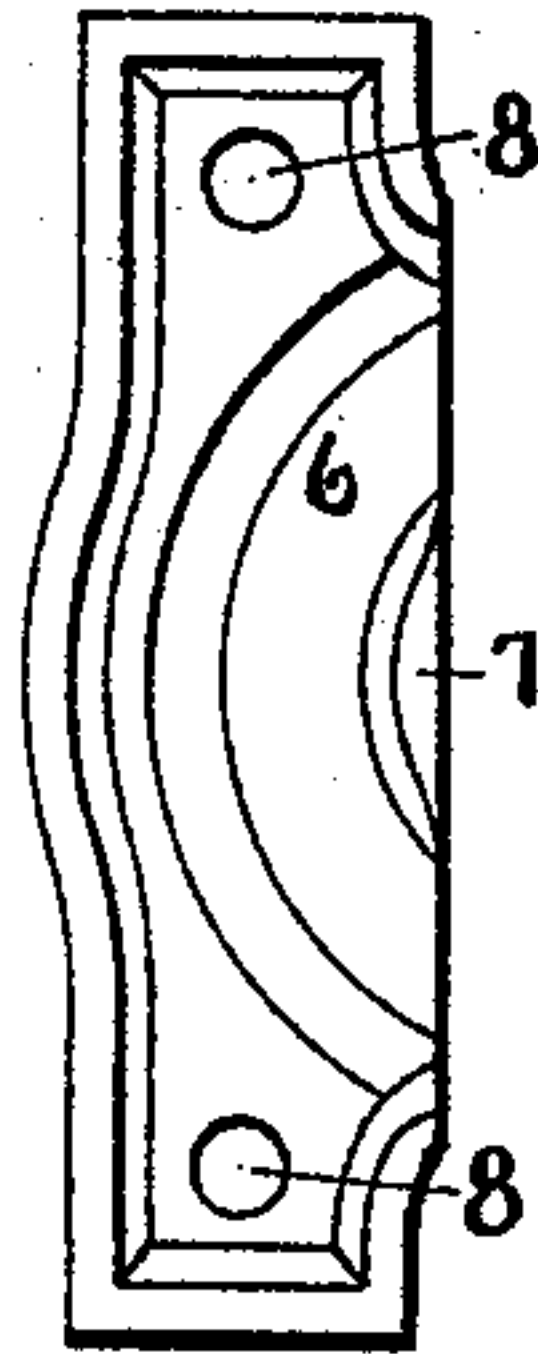


FIG. 3.



FIG. 4.

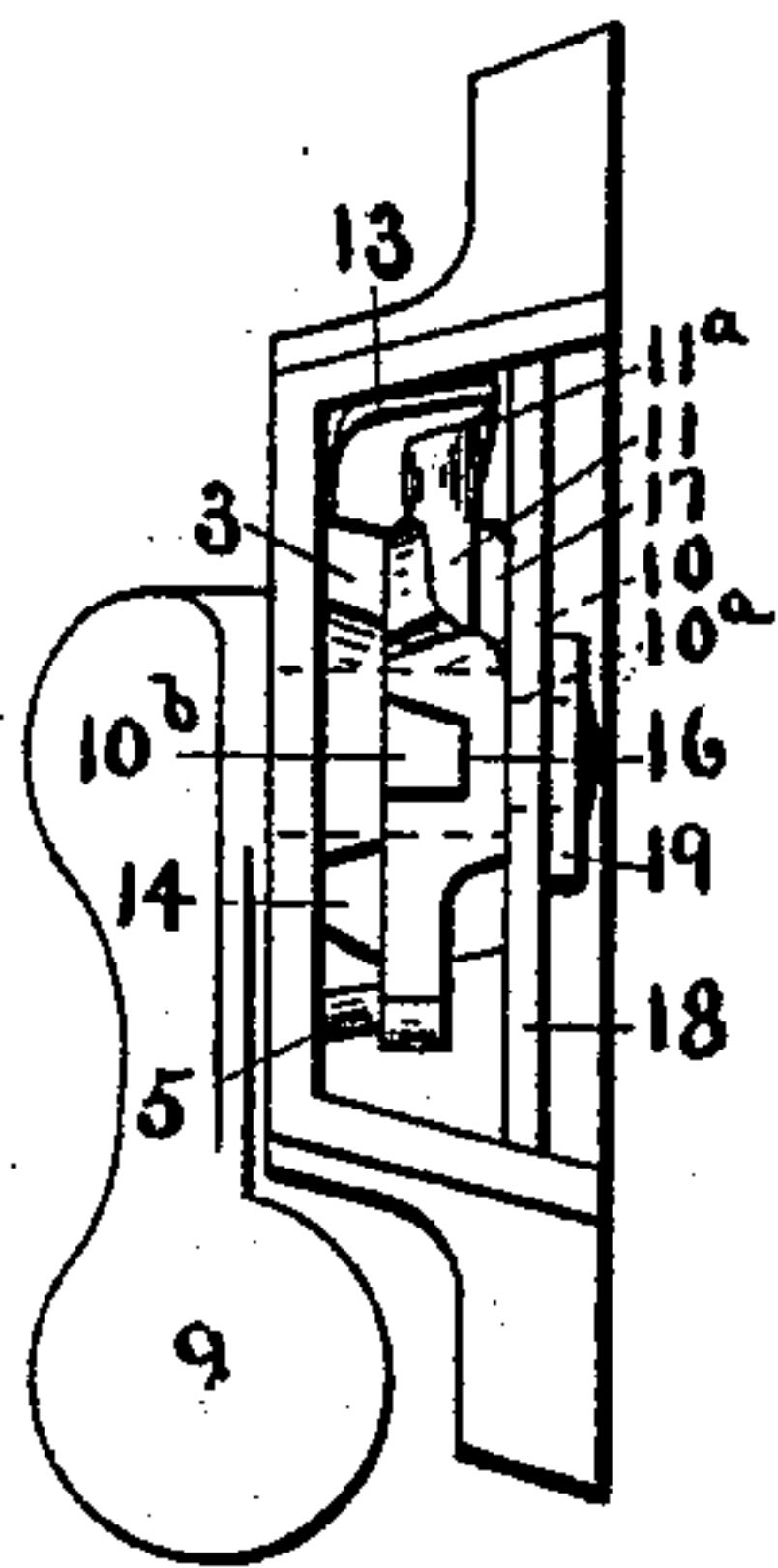


FIG. 5.

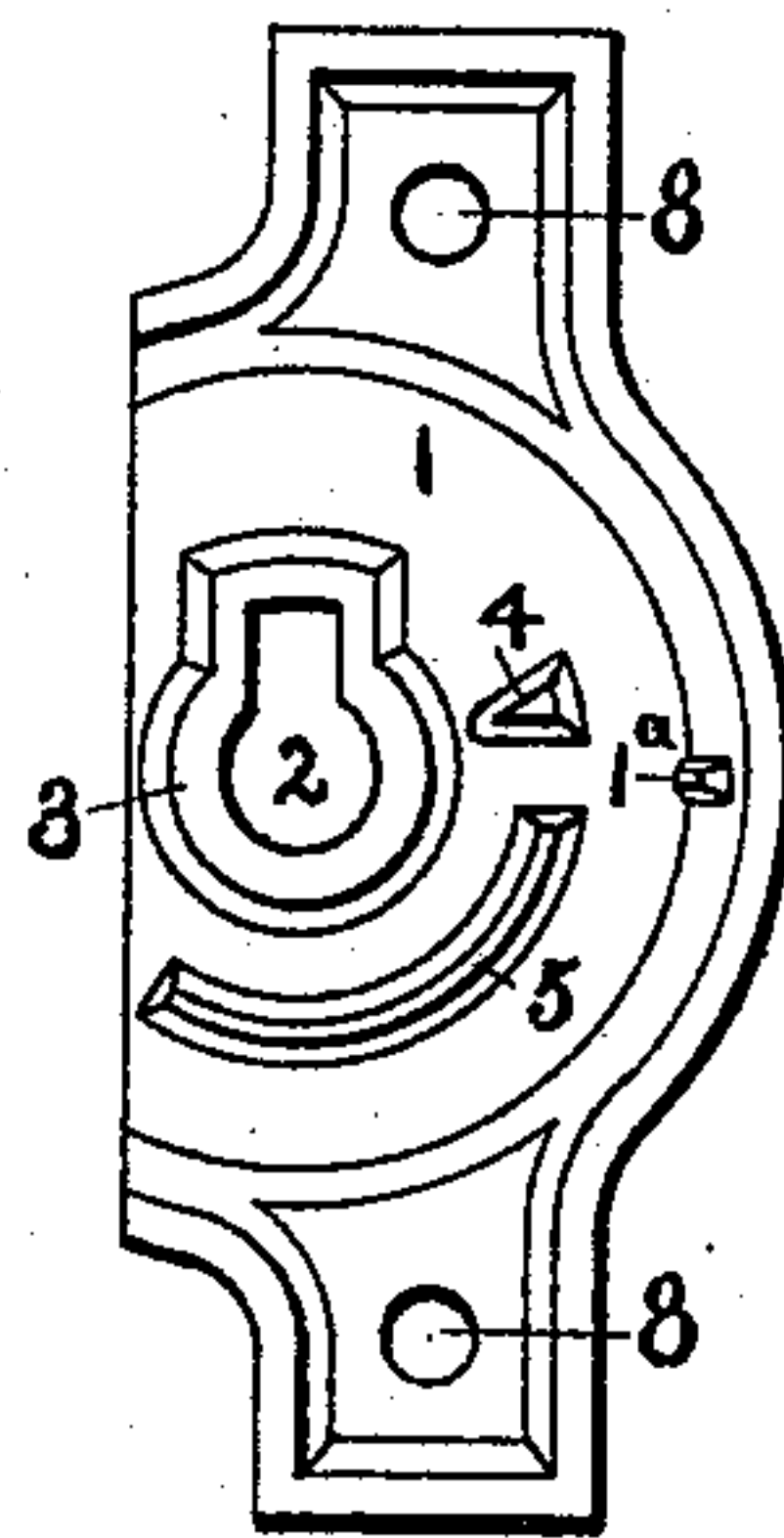


FIG. 6.

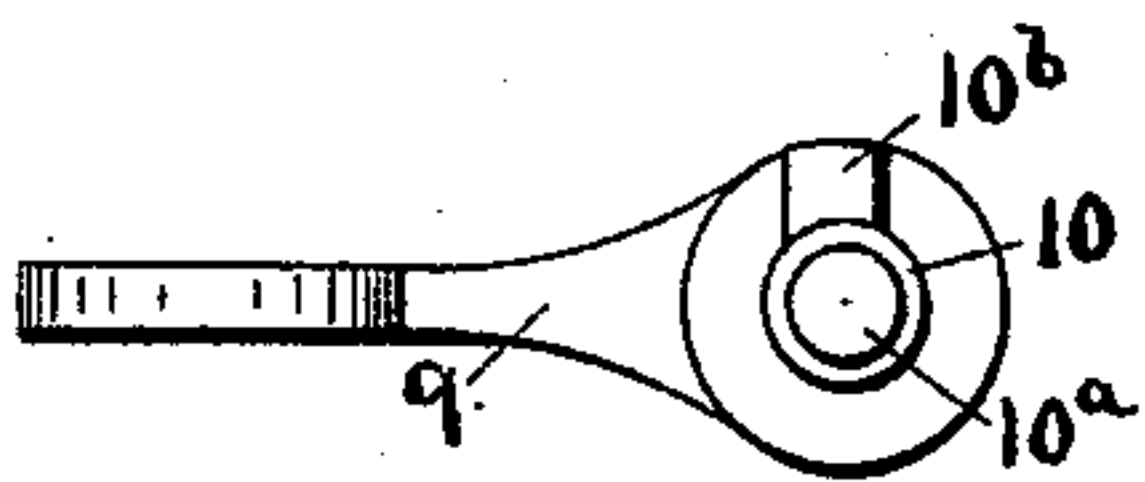


FIG. 7.

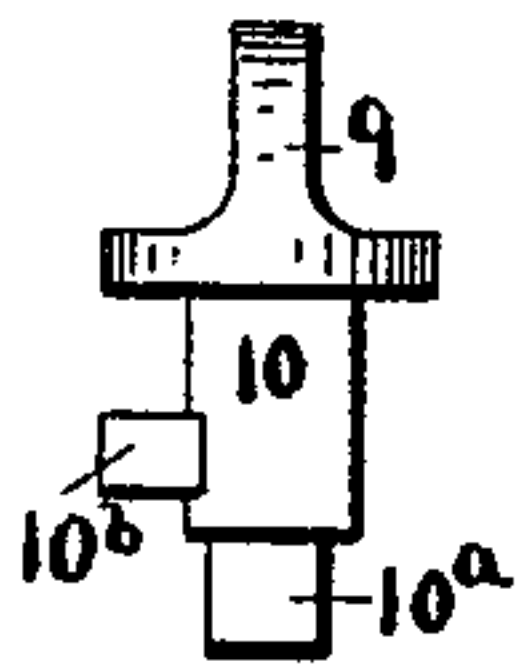


FIG. 8.

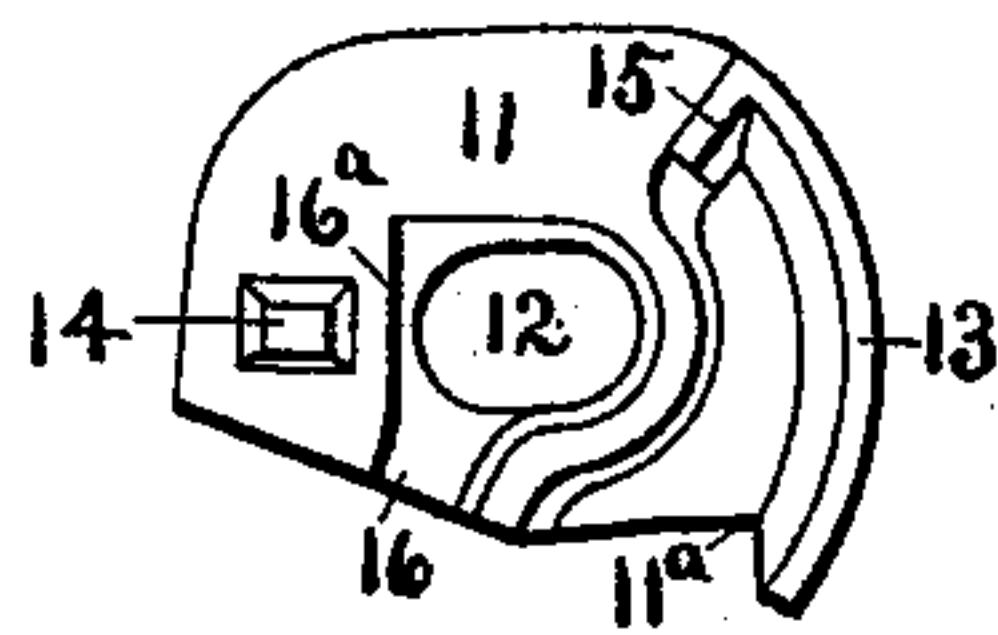


FIG. 9.

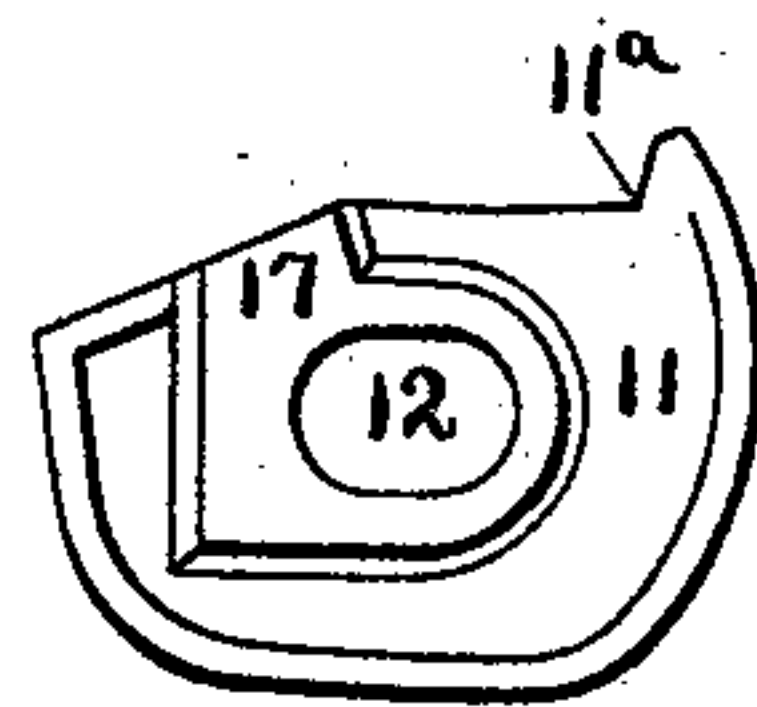


FIG. 10.

WITNESSES:

*D. H. Vain.*  
*L. N. Luther.*

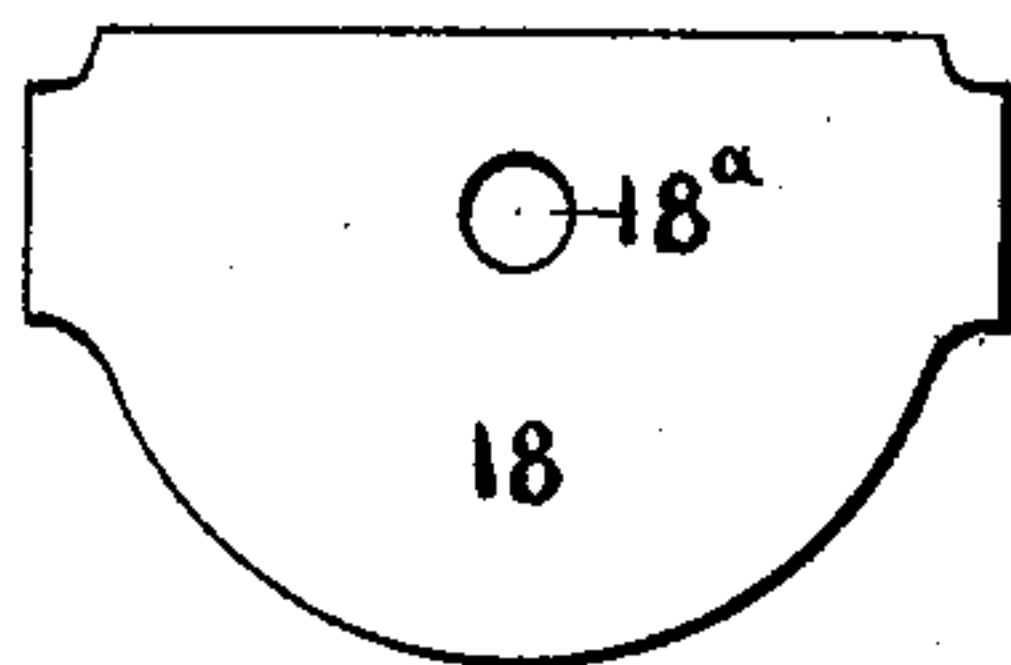


FIG. 11.

INVENTOR:

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*attys.*



# UNITED STATES PATENT OFFICE.

FREDERICK BURMEISTER, OF CLEVELAND, OHIO.

## FASTENER FOR MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 528,656, dated November 6, 1894.

Application filed May 17, 1894. Serial No. 511,512. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK BURMEISTER, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Fasteners for the Meeting-Rails of Sashes, of which the following is a full, clear, and exact description.

My invention consists of a case for the lower window sash with the internal mechanism and lever hereinafter fully described and claimed—and a case for the upper window sash having a depending lip.

The object of my improvement is to provide a cheap, durable and smoothly acting lock or fastener for the meeting-rails of window sashes, by means of which said rails are drawn together when separated or sprung apart, and securely held in place in such a manner that the windows cannot be opened.

My device not only fastens the windows, but is itself locked so that the same cannot be opened from the outside by means of a thin instrument introduced between the meeting-rails of the sashes.

That my invention may be seen and fully understood by others, reference will be had to the following specification and annexed drawings forming a part thereof, in which—  
Figure 1 is a top view of the lower sash case showing two positions of the lever and cam; Fig. 2, a top view of the upper sash case; Fig. 3, a bottom view of said case; Fig. 4, a side view of the same; Fig. 5, a side view of the lower sash case and its appurtenances; Fig. 6, a bottom view of said case; Fig. 7, a bottom view of the lever; Fig. 8, an end view of said lever; Fig. 9, a top view of the cam; Fig. 10, a bottom view of the same, and Fig. 11, a view of the plate on the bottom of the upper sash case.

Similar figures of reference designate like parts in the drawings and specification.

The lower sash case 1 has the elongated opening 2 therein and the flange 3 surrounds said opening on the under side of said case. Back of the flange 3 on the under side of the case 1, is the lug 4 and the flange 5, remote from said flange 3, partially surrounds the same, but falls short of said lug. The upper sash case 6 is provided with the depending, integral lip 7 which is in the form of an arc

of a circle. The holes 8 in each end of the case 1 and of the case 6 receive the screws which attach said cases to their respective meeting rails.

The lever 9 has the round post 10 at one end, standing at right angles to said lever and terminating in the projection 10<sup>a</sup> of less diameter than said post. The lug 10<sup>b</sup> extends from one side of the post 10 and is integral therewith. The diameter of the post 10 is the same as that of the circular part of the case opening 2 and the size of the post lug 10<sup>b</sup> conforms to that of the elongated portion of said opening. When the post 10 is inserted in the opening 2 and turned, the top of the lug 10<sup>b</sup> bears on the bottom of the flange 3 and the lever 9 may be freely rotated upon the upper surface of the case 1.

The cam 11, of essentially the shape shown in the drawings, is provided with the elliptical opening 12 sufficiently large to receive the lever post 10 and allow said cam to play around said post. The front portion 11<sup>a</sup> of the cam 11 is deflected downward to more readily allow of engagement with the upper case lip 7. On the upper surface of the cam 11 is the peripheral flange 13 and the lug 14. The flange 13 is in the form of an arc of a circle and the side of said flange, which is brought into contiguity with the upper case lip 7, has the same radius as the contiguous surface of said lip. The shoulder 15 is formed by an offset in the flange 13. The notch 16 is located in the cam 11 near the lug 14 and is large enough to accommodate the post lug 10<sup>b</sup>. On the under side of the cam 11 is the raised surface or flange 17 about the opening 12. The cam 11 and lever 9 are held in place by the plate 18 and the washer 19, the end of the post projection 10<sup>a</sup> being "headed over" on said washer. The plate 18 bears against the under side of the lateral wings of the case 1 and the base of the ear 1<sup>a</sup>, and has the hole 18<sup>a</sup> to receive the post projection 10<sup>a</sup>. The plate 18 may be dispensed with and only the washer 19 used, but said plate holds the parts more firmly in place and is, therefore, a desirable adjunct. The flange 17 furnishes a bearing surface for the cam 11 on the plate 18 or washer 19, if said plate is not employed.

When the fastener is open, as shown in Fig.



5, the flange shoulder 15 on the cam 11 is in contact with the outside of the case lug 4 and the post lug 10<sup>b</sup> points to the front. To close the fastener, rotate the lever 9 and the post 5 lug 10<sup>b</sup> being in the cam notch 16, causes said cam to describe about the fourth part of a circle and engage its flange 13 with the lip 7 of the case 6, the cam lug 14 traveling in the space between the case flanges 10 3 and 5. The cam 11 now assumes the position indicated by the dotted lines 20, in Fig. 1, and the cam lug 14 is in contact with the inside of the case lug 4, which prevents further revolution of said cam. By continuing the rotary movement of the lever 9, 15 the post lug 10<sup>b</sup> passes out of the notch 16 and forces the cam 11 inward with its lug 14 between the case lug 4 and the inner end of the case flange 5, until said cam assumes the 20 position shown in Fig. 1, by the full lines. When the cam 11 is engaged with the lip 7 on the case 6, said case is drawn against the case 1, by the movement just described, where it is held until said cam is rotated in the opposite direction. The cam 11 can only be returned to its former position through the medium of the lever 9 and post 10, since the lug 14 is lodged between the lug 4 and the end of the flange 5, as before explained, and the 30 post lug 10<sup>b</sup> bears against the side 16<sup>a</sup> which is a continuation of one side of the notch 16.

To unlock the cases 1 and 6, revolve the lever 9 in the direction opposite to that already indicated. The post lug 10<sup>b</sup> now passes 35 again into the notch 16, throws the cam 11 forward until the lug 14 is clear of the end of the case flange 5, and rotates said cam until

the shoulder 15 strikes the outside of the lug 4. The cam 11 no longer engages the case lip 7 and the meeting-rails are free to 40 pass each other.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, in a fastener for the meeting-rails of sashes, of the case 1 having the 45 elongated opening 2 surrounded on the under side by the flange 3, the lug 4 and curved flange 5 remote from said flange 3 with a space between said lug and the end of said flange 5; the lever 9 provided with the post 50 10 terminating in the projection 10<sup>a</sup> of less diameter than said post and having the lug 10<sup>b</sup> extending therefrom, said post adapted to operate in the circular part of said case opening and said post lug conforming to the 55 elongated portion thereof; the cam 11 having the deflected portion 11<sup>a</sup>, the peripheral flange 13 with shoulder 15, and the lug 14 on the upper surface, the elliptical opening 12 sufficiently large to receive said lever post and 60 permit said cam to play around the same when operated upon by said post lug, the notch 16 near said lug 14 to accommodate said post lug, and the flange 17 about said cam opening on the under side; the plate 18 perforated to receive said post projection; a 65 washer, and the case 6 with depending lip 7, substantially as set forth.

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

FREDERICK BURMEISTER.

Witnesses:

F. A. CUTTER.

L. A. STRATTON.