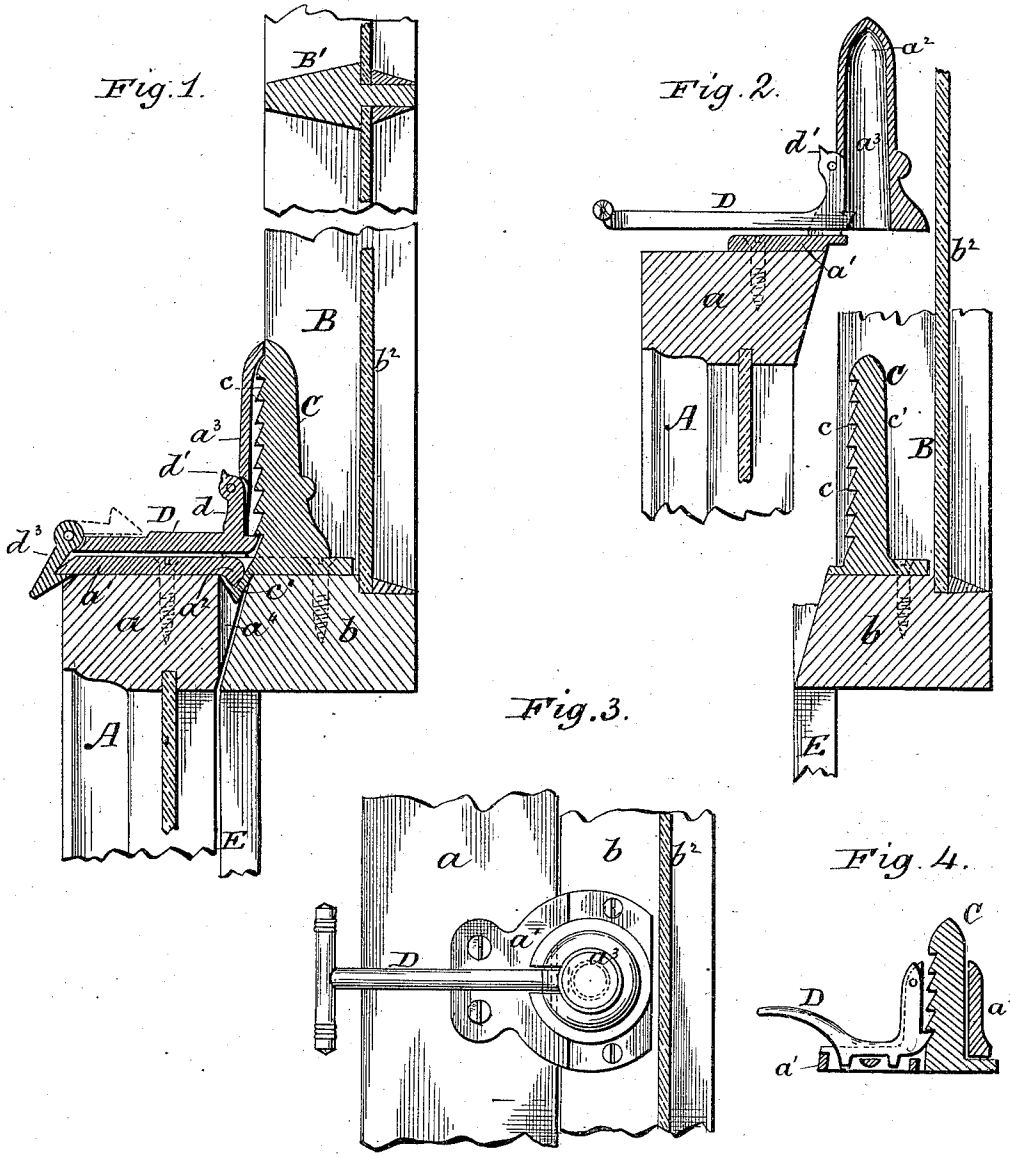


(No Model.)

G. H. KANMACHER.
WINDOW FASTENER.

No. 311,765.

Patented Feb. 3, 1885.



Witnesses
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UNITED STATES PATENT OFFICE

GEORGE H. KANMACHER, OF COLUMBUS, OHIO.

WINDOW-FASTENER.

SPECIFICATION forming part of Letters Patent No. 311,765, dated February 3, 1885.

Application filed March 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. KANMACHER, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Window-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

10 Figure 1 is a central vertical section of a sash-fastener constructed in accordance with my invention. Fig. 2 is a similar view of a modification, in which the lower sash is represented as slightly raised. Fig. 3 is a plan of Fig. 2. Fig. 4 shows the fastener's sheath open at the top.

Like letters refer to like parts in all the figures.

20 The object of my invention is to provide a sash holder and fastener which, while secured to the meeting-rails, shall be capable of securely locking the sashes when closed, and also when partly open, and to firmly draw the meeting-rails thereof against each other in the act of locking the same, and to hold them in close contact with each other when locked.

25 Other objects and advantages will appear in the following description, and the novel features of my invention will be specifically set forth in the claim.

30 A represents the inner or lower sash, and B the outer or upper sash, and a b the meeting-rails of the same, respectively.

35 Upon the meeting-rail b , I secure, in any suitable manner, a stud or standard, C, having upon its inner surface a series of teeth, c , having their lower edge horizontal, and a V-shaped hook, c' , Fig. 1, projecting bodily beyond the inner face of the meeting-rail, and to provide for the passage of the meeting-rail 40 a said rail has formed therein a semi-conical groove at a' .

45 Upon the meeting-rail a , I secure a plate, a' , having a depending hook, a^2 , adapted to cooperate with the hook c' , whereby when the sashes are closed the inclined surfaces of the two hooks c' a^2 act to draw the meeting-rails firmly against each other. The inner end of the plate a' is formed so that the latch may 50 take thereunder, the upper inner edge of the rail a being cut away for the reception of the point of the latch, if desired. The plate a' is

provided with a vertical bracket, a^3 , perforated for the pivotal support of a locking-lever, D, thereon and slotted for the passage of a portion of said lever therethrough. This 55 bracket may be of any suitable design and configuration for the functions stated, and may be extended so as to cover from sight the teeth of the standard C; or it may be made to embrace the standard, for the purpose hereinafter 60 described. The lever D has near one end an arm, d , through which its pivot passes, and above the pivot the said arm has a projection to form a stop, d' , which, abutting against the bracket a^3 , prevents any possibility of the free 65 end of the lever being thrown against the glass b^2 of the sash or of remaining in a vertical position.

d^2 is a latch pivotally secured to the free end 70 of the lever D, whereby it may be caused to take under the plate a' , and thus lock the lever in a depressed position, with its inner end projected within the bracket a^3 , so as to take into the teeth of the standard C. 75

The above-described fastener is adapted for use upon sashes having cross-mullions B', but with windows having only two or four lights.

I prefer to construct the fastener as shown in Figs. 2 and 4, in which I have illustrated 80 a simple construction which involves the use of the bracket a^3 , wherein it is made to embrace the standard C, having its side c' slightly inclined toward the apex, as before stated, in which case the bore of the bracket is made 85 conical at a^2 , and constitutes a sheath either with an open top or closed, as shown. This construction, in connection with a tapering rear or outer side or wall, c' , of or upon the standard C, serves, in the act of closing the 90 window, to firmly draw the meeting-rails against each other. In this modification the plate a' , hooks c' a^2 , and latch d^2 (shown in Fig. 1) are dispensed with, as is also the groove 95 a^4 in the rail a , the plate a' being projected beyond the plane of the window-frame parting-strip E, and also beyond the outer face of the rail a , so as to form a close joint with the base of the standard C.

In the construction shown in Fig. 1 it will 100 be seen that the sheath or bracket a^3 and the lever D are adapted to pass any cross-mullions of the upper sash, which is not the case in the construction shown in Figs. 2, 3, and 4, which

is designed more especially for sash with larger-sized glass; but the use of a ratcheted standard upon the meeting-rail of the upper sash and an engaging-lever upon the lower sash is the same in either figure. It will be seen that by elevating the free end of the lever D its opposite end is withdrawn from the teeth of the standard C, and that the lower sash may be raised to any desired height, and provided the upper rail thereof is not elevated above the standard, rod, or stud C, whatever may be the length of the latter, the sashes may be locked and firmly held together in said partially raised or open condition; furthermore, in cases where, by reason of light weights or other causes, the upper sash settles below its normal position, it may be raised by means of the lower sash and the lever thereon to its normal

position, and said lower sash may afterward be depressed and securely locked, as before described.

Having fully described my invention I claim—

The combination of upper sash-rail, *b*, provided with a toothed standard having an inclined wall or side, as *c'*, with a bracket having an inclined side or wall, as *a'*, adapted to co-operate with the inclined wall *c'*, and a lever adapted to take into the teeth of the standard, substantially as specified.

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

GEORGE H. KANMACHER.

Witnesses:

CHAS. H. KAMPMANN,
HERMAN BUCHS.