

(No Model.)

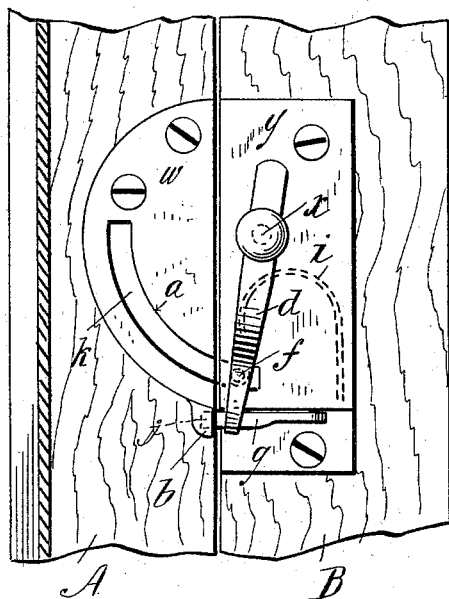
D. COTE.

FASTENER FOR THE MEETING RAILS OF SASHES.

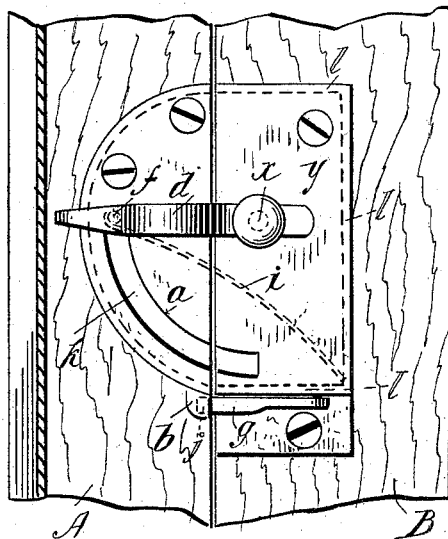
No. 456,759.

Patented July 28, 1891.

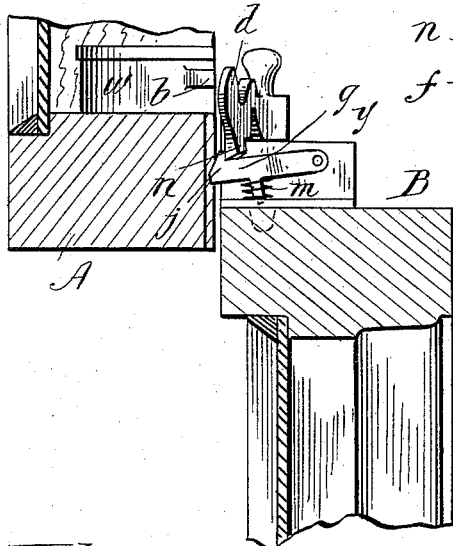
*Fig. 1.*



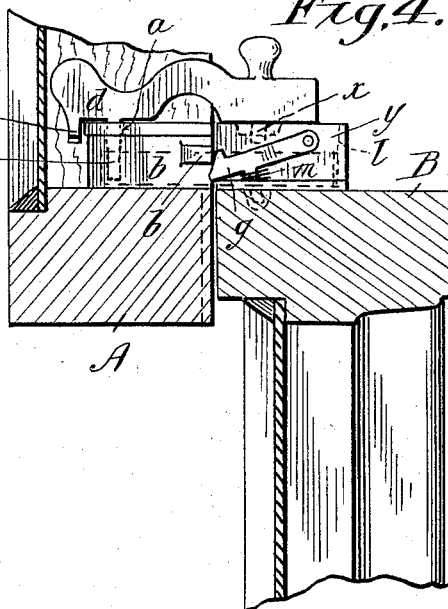
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses:

*J. D. Garfield*  
*G. M. Chamberlain*

*Inventor,*

*David Cote*

*by Chapin & Co.*  
*Attorneys*

# UNITED STATES PATENT OFFICE.

DAVID COTE, OF SPRINGFIELD, MASSACHUSETTS.

## FASTENER FOR THE MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 456,759, dated July 28, 1891.

Application filed March 13, 1891. Serial No. 384,959. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID COTE, a subject of the Queen of Great Britain, residing at Springfield, in the county of Hampden and State of Massachusetts, United States of America, have invented new and useful Improvements in Fasteners for the Meeting-Rails of Sashes, of which the following is a specification.

10 The object of this invention is to improve the construction of fasteners for the meeting-rails of window-sashes.

Under this invention the sash-fastener may have its catch member carried to and maintained in its position of disengagement preparatory to and while the window is being opened; but as the sash or sashes are moved to entirely close the window the catch device of the said fastener will be automatically released from its disengaging position on the one sash and swung into an engagement with a suitable part of the other sash.

25 The invention consists in the construction and combination of parts, all substantially as will hereinafter more fully appear, and be set forth in the claim.

In the accompanying drawings, fasteners constructed under and embodying the present invention are illustrated, Figure 1 being a plan view of portions of the meeting-rails of two sashes, showing the improved fastener applied thereon, the locking-catch of the fastener being shown as in its position of disengagement. Fig. 2 is a plan view similar to Fig. 1, but showing the locking-catch of the fastener as in its position of engagement. Fig. 3 is a vertical section of portions of the sash and elevation of the sash-fastener, the movable parts thereof being in positions corresponding with those shown in Fig. 1 and the one sash moved vertically from its closed position. Fig. 4 is a view similar to Fig. 3, showing the parts of the fastener in positions corresponding to those illustrated in Fig. 2, the sashes being locked.

50 In the drawings, A and B represent portions of the meeting-rails of the two sashes for a window, the said sashes of course being understood as guided in the window-casing in the usual manner. The one sash-rail is pro-

vided with the arms *d*, pivotally mounted and adapted to swing across and above the upper face of the other sash-rail, which is provided with the locking or engagement surface *a*, 55 with which the catch portion or member *f* of the said arm *d* has an engagement, when the said arm is swung transversely of the rails A B, which engagement is broken as the said arm is swung longitudinally with relation to the 60 rail on which it is mounted.

*i* indicates a spring, which is applied with relation to the said catch-arm *d* to insure the swinging of said arm into its position of engagement, and *g* represents a trigger, which 65 is pivotally mounted with relation to the said arm *d*, so that as the said arm is swung against its spring into the position of disengagement an engagement will be had by the said trigger upon a portion of the said arm to restrain 70 it against returning to its transverse position under the reaction of its spring.

*b* represents an abutment-piece, which is mounted on and movable with the rail of the sash, which is opposite the one on which said 75 trigger is supported. The said abutment-piece is so located that as the meeting-rails of the sashes are brought together, as usual, when the sashes are closed it will impinge upon the extremity *j* of the said trigger, which is ex- 80 tended into the line of said abutment-piece, and move the trigger to release its engagement from the arm *d*, when the latter will, under the reaction of its spring, be immediately swung into engagement with the locking-sur- 85 face *a*.

As particularly illustrated, as a desirable design for the parts of the said fastener the locking or engagement surface *a* is constituted by the one wall of the slot *k*, which is 90 formed as an arc in a casting *w*, to be screwed or otherwise secured upon the sash-rail A, and the abutment-piece *b* is here shown as in the form of a lug formed integrally upon said casting.

The swinging and locking arm *d* in the arrangement here particularly illustrated is 95 pivoted at *x* upon the hollow casting *y*, which is screwed to the sash-rail B. The spring *i* is located principally within the said hollow casting, which latter is closed on three of its sides, 100 as indicated by the dotted line *l*; but the said casting is open at its side toward the casting

5 *w* on the other rail, which casting *w* also is  
 open from its inner edge, being chambered  
 within said edge to permit of the entrance  
 thereinto of a portion of the spring as the  
 10 catch-arm *d* is swung into its position of en-  
 gagement, and, furthermore, as particularly  
 illustrated, the trigger *g* is pivotally mounted  
 on one end wall of the casting *y*, and is pro-  
 vided with the spring *m* for maintaining it in  
 15 its position for engagement with the suitable  
 portion of the arm *d*. In the design of the said  
 arm here given the same is provided with a  
 catch-lug *n*, which is formed as a downwardly-  
 extended protuberance and adapted by its  
 20 one edge to move upon the outer curved sur-  
 face of the said casting *w*.

What I claim as my invention is—

25 In a sash-fastener, the combination, with a  
 hollow casting for application to one sash-  
 rail, having its side which lies toward the  
 other sash open and provided in the top with

the arc-formed slot *k*, which extends to said  
 open side of the casting, and said casting be-  
 ing provided with the lug or abutment *b*, of a  
 second hollow casting for the other sash-rail, 25  
 having its side which is toward the first-  
 named rail open, and having the locking-arm  
*d* pivotally supported thereon concentrically  
 with the said arc slot, and having the catch-  
 lug *f*, which plays through said slot, the spring 30  
*i*, located and secured within the latter cast-  
 ing and engaging the lug *f* and adapted to  
 have a reaction to extend within the other  
 casting as the locking-arm is swung, and the  
 trigger *g*, pivoted on the outside of the second 35  
 casting and adapted to be engaged by the  
 abutment-piece *b*, substantially as described.

his  
 DAVID X COTE.  
 mark

Witnesses:

WM. S. BELLOWS,  
 ELIE MILLETT.