

J. J. COONEY.
SASH CHAIN FASTENER.
APPLICATION FILED APR. 7, 1910.

987,700.

Patented Mar. 28, 1911.

Fig. 1.

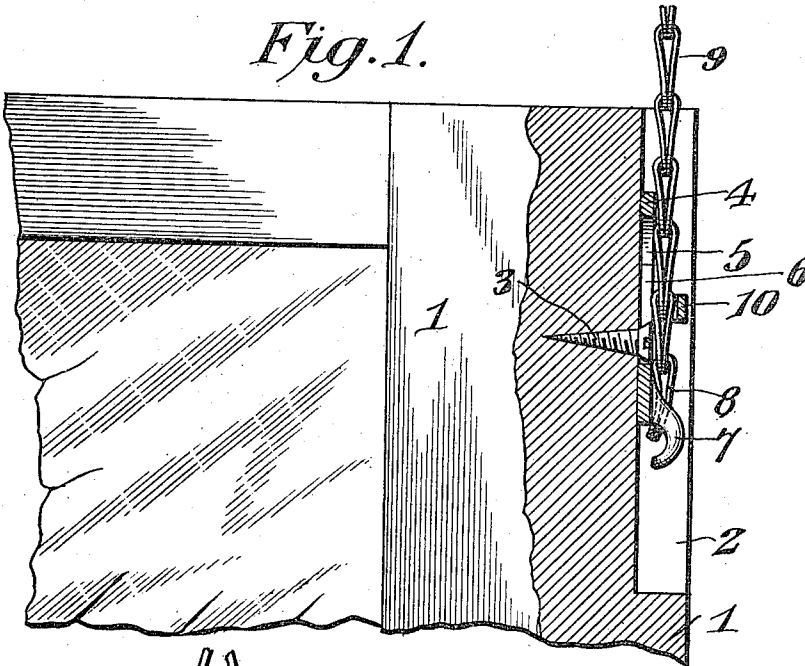


Fig. 2.

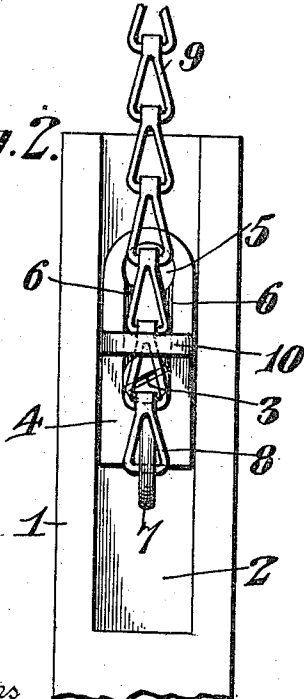


Fig. 3.

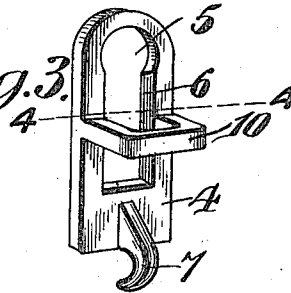
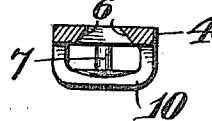


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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SASH-CHAIN FASTENER.

987,700.

Specification of Letters Patent.

Patented Mar. 28, 1911.

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To all whom it may concern:

Be it known that I, JOHN J. COONEY, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a new and useful Sash-Chain Fastener, of which the following is a specification.

This invention relates to improvements in devices for supporting window sashes, and the object of the invention is to provide a simple and efficient fastener by the use of which the chain or sash cord may be readily attached to and detached from any ordinary window sash now in common use, and which may be applied without necessitating any mutilation of the sash.

A further object of the invention is to provide means for connecting the end of the chain or sash cord to the sash and at the same time holding the said chain or cord in such position that it will not impinge against and wear the window-frame.

With these stated objects, and such other incidental objects as will appear, in view, the invention consists in a removable fastening plate adapted to be held to the window sash and to engage the end of the chain or sash cord, and provided with means for preventing the chain or cord from swinging away from the sash so as to wear upon the window-frame. Such a device is illustrated in the accompanying drawings and will be hereinafter fully described, the novel features of the same being subsequently pointed out in the appended claims.

In the drawings, Figure 1 is a view showing my improved sash chain fastener applied to a window sash. Fig. 2 is an end elevation of a portion of the sash showing the chain and the fastener in position thereon. Fig. 3 is a detail perspective view of the chain fastening plate. Fig. 4 is a detail sectional view of the plate taken on the line 4-4 of Fig. 3.

The window sash 1 may be of any desired size and construction and is provided in its side edge with a recess or channel 2 which is preferably located at the upper end of the sash, but may, of course, extend the full height of the same or any desired distance along the side edge. The chain fastener may be secured at any desired point along the channel or recess 2 but, ordinarily, it will be found desirable to arrange the fastener near the upper end of the sash, inasmuch as the material of the sash may be

thereby kept intact owing to the fact that a shorter channel will suffice to receive the fastener.

In applying the invention, a stud is employed which is preferably in the form of an ordinary wood screw 3 inserted through the base of the channel into the sash, as clearly shown in Fig. 1, with its head projecting from the base of the channel. A keeper plate 4 is employed and this plate is of such width as to fit snugly between the side walls of the channel, as shown in Fig. 2, and is provided with a longitudinally-disposed keyhole slot 5 having beveled or inwardly-converging side walls 6 on its straight portion, whereby the said plate may be engaged over the head of the stud or screw 3 and thereby retained in position upon the sash, as will be readily understood. At the lower end of the keeper plate 4 is a hook or projection 7 which is adapted to engage the lowest link 8 of a sash chain 9 or an eye or ring of similar form, which may be secured to the lower end of the sash cord. The chain will thus be connected with the sash and the weight of the sash will hold the keeper in its uppermost position so that the lower end of the keyhole slot therein will bear against the projecting head of the stud or screw 3 and, consequently, suspend the sash on the chain.

In order to hold the chain in proper position close within the channel or recess 2 of the sash and vertically under the projecting portion of the sash pulley, a bridge or keeper 10 is provided on the outer face of the keeper plate 4 and adapted to extend over the chain when the same is in position and thereby prevent the chain striking against and wearing on the window frame. It will also be noted that this bridge or keeper serves to crowd the chain slightly into the slot 5 and consequently holds the link 8 in constant engagement with the hook or projection 7 so that accidental disengagement of the same cannot occur.

From the foregoing description, taken in connection with the accompanying drawings, it will be seen that I have provided a device of extremely simple construction which may be applied to any window sash at a slight cost. In applying the fastener to the sash, it is only necessary to form a channel or recess in the edge of the sash and insert an ordinary wood screw at the proper point in the base of the channel. The keeper plate 4 may

be engaged in the chain before being applied to the sash and it is then necessary merely to slip the circular portion of the keyhole slot 5 in the said plate over the head of the screw, after which the tension of the chain will draw the plate upward so that the beveled side edges of the straight portion of the keyhole slot will take under and engage the head of the screw, whereupon the device 10 will be ready for use. Should it be necessary to disconnect the sash for any purpose, the keeper plate is moved in the opposite direction, whereupon it will become disengaged from the screw and may be readily removed. Should it be necessary to remove the screw, no mutilation of the woodwork will be caused and the screw may be re-inserted without trouble and without any damage to the window.

20 The advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims 30 appended hereto.

Having thus described the invention, what I claim as new, and desire to secure by Letters Patent, is:—

35 1. The combination with a sash, of a headed projection in the edge thereof, a keeper plate adapted to removably engage said projection, and a chain detachably secured to said keeper plate.

2. The combination with a sash, of a headed 40 projection on the edge thereof, a keeper plate having a keyhole slot adapted to engage the said headed projection, and a chain detachably engaged by the said keeper plate.

3. The combination with a sash, of a pro- 45 jection thereon, a keeper plate detachably engaging said projection, a hook at the lower end of said plate, and a chain engaging said hook.

4. The combination of a sash, a headed 50 projection thereon, a keeper plate detachably engaging said projection and provided with a bridge on its outer face and a hook at its lower end, and a chain engaging the said hook and passing under the said bridge. 55

5. The combination of a sash having a recess in its side edge, a headed projection in the base of said recess, a keeper plate having a keyhole slot adapted to engage said headed projection, a downwardly-projecting hook 60 at the lower end of the keeper plate, a bridge on the outer face of the plate extending over the slot therein, and a chain engaging said hook and passing under said bridge.

6. A keeper plate for the purpose de- 65 scribed comprising a flat plate provided with longitudinally-disposed key-hole slot to engage over a beaded stud or screw, a bridge or keeper located at an intermediate point of the plate, and a hook disposed at one end 70 of the plate beyond the slot.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN J. COONEY.

Witnesses:

JOSEPH F. VION,
JAMES JOHNSON.