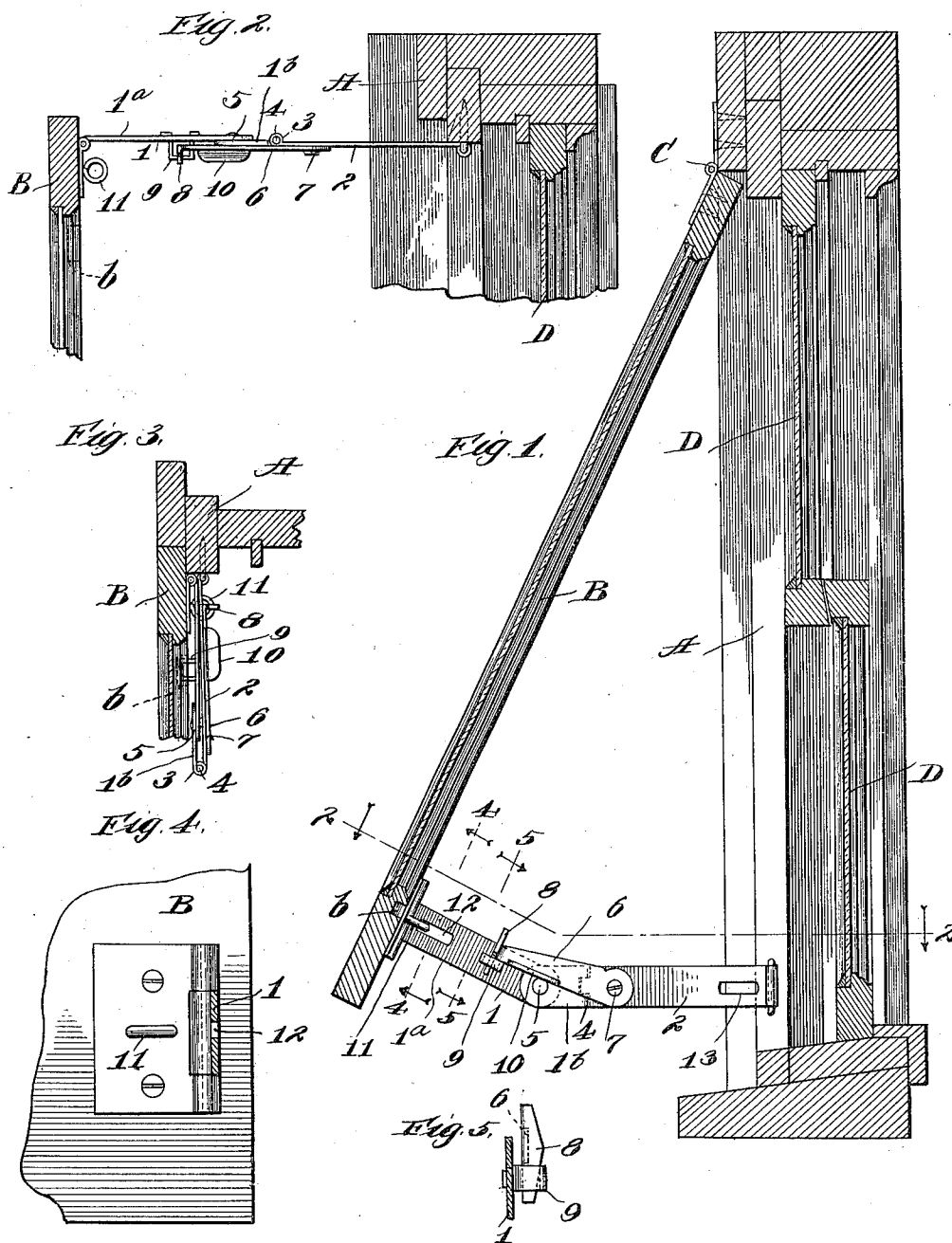


L. P. NELSON.
FASTENING DEVICE FOR STORM WINDOWS OR THE LIKE.
APPLICATION FILED JUNE 13, 1910.

1,030,115.

Patented June 18, 1912.



Witnesses:

J. D. Paubuschmitt
C. Paul Parker.

Inventor:

Lewis P. Nelson
By Luther L. Miller, Atty.

UNITED STATES PATENT OFFICE.

LEWIS P. NELSON, OF KENOSHA, WISCONSIN.

FASTENING DEVICE FOR STORM-WINDOWS OR THE LIKE.

1,030,115.

Specification of Letters Patent.

Patented June 18, 1912.

Application filed June 13, 1910. Serial No. 566,511.

To all whom it may concern:

Be it known that I, LEWIS P. NELSON, a citizen of the United States, residing at Kenosha, in the county of Kenosha and State of Wisconsin, have invented certain new and useful Improvements in Fastening Devices for Storm-Windows or the Like, of which the following is a specification.

This invention relates to a device for securing two parts together and for spacing them apart. I have herein shown the invention as applied to a storm window, whereby the window may be held in an open position or may be locked to the casing as desired. It should be understood, however, that this use is merely one example, the invention being equally well applicable for use on transoms, trap-doors and in many other places.

The object of the invention is to produce a device of this character which is simple, which may be conveniently attached and operated, and may be cheaply manufactured.

In the accompanying drawings, Figure 1 is a sectional view through a window casing having a storm window hinged thereto, and showing in side elevation a device embodying my invention in position to hold the window open. Fig. 2 is a section on line 2 2 of Fig. 1. Fig. 3 is a section in the same plane as Fig. 2, but showing the window locked in its closed position by the device. Figs. 4 and 5 are sectional detail views taken in the planes of lines 4 4 and 5 5, respectively, of Fig. 1.

In the drawings, A indicates a window casing of common construction and B a storm window having its upper end hinged at C in any suitable way to the casing A. The window sashes are indicated at D.

The embodiment of my invention which I have herein shown by way of example is in the form of a jointed link, and comprises sections 1 and 2 pivotally connected together in any suitable way as by forming hinge barrels 3 upon the ends of said sections and placing a pintle 4 in said barrels. The opposite ends of said sections are permanently hinged to the window casing A and storm window B, respectively, to swing in a substantially horizontal plane, said sections when extended holding the window open as shown in Fig. 1, and being adapted to fold

together and lie alongside the window B as seen in Fig. 3 when the window is closed.

It will be noted that in the use in which the device is herein shown, to-wit, where the movable member B is hinged at one edge, the section 1 of the device is carried upwardly as the window B moves outwardly. To permit of this upward movement of the section 1, I joint the link in such a way as to permit relative movement between the ends thereof in both a vertical and horizontal plane. This is accomplished in the present instance by forming a joint 5 in the section 1 adapted to permit relative vertical movement between the parts 1^a and 1^b thereof, said joint in this instance resisting lateral or horizontal movement between said parts.

The means for locking the device in its open or extended position so as to prevent accidental folding movement thereof comprises a latch 6 pivoted at 7 upon the section 2, said latch being adapted to bridge the joint between sections 1 and 2, and having a pin 8 extending transversely of its free end and projecting in opposite directions therefrom, said pin being adapted to enter an eye 9 upon the section 1.

10 is a flange or finger-hold on the latch 6, by means of which the operator may swing the latch. It will be seen that the latch forms a brace which will prevent folding movement of the device.

When the window is closed, the sections 1 and 2 of the device fold together and lie alongside the sash B. When the sash B is closed, an eye 11 secured to said sash passes through openings 12 and 13 in the sections 1 and 2 and projects from the inner side thereof.

The pivot 7 for the latch 6 is so positioned upon the section 2 that said latch serves not only to brace the sections when in their open position but to coöperate with the eye 11 when the device is folded to lock the parts together so as to secure the window in its closed position. A depression 6 may be provided in the window frame B to receive the eye 9 when the window is closed.

It will be evident that when the parts are thus locked in their folded position, they cannot be tampered with from the outside.

If desired, the sections 1 and 2 and the latch 6 may be formed of sheet metal. The

device will thus be very light, and may be produced at a very low cost.

I would have it understood that I do not limit myself to the exact construction herein shown and described inasmuch as many changes may be made within the spirit and scope of my invention.

I claim as my invention:

1. The combination of a fixed part; a movable part; a folding link having its ends hinged to said fixed part and said movable part to swing in one plane, one of the sections of said link being jointed to swing in a plane substantially at right angles to the first mentioned plane; and means for locking said sections together to secure said movable part to said fixed part.

2. The combination of a fixed part; a movable part; a folding link having its ends permanently pivoted to said fixed part and said movable part, said link comprising two sections pivotally connected together to fold in one plane, one of said sections being jointed to permit relative movement of its parts in a plane at an angle to the first mentioned plane; and means carried by said link for bracing said sections to hold them in their extended position.

3. The combination of a fixed part; a movable part; a jointed link connecting said parts, the sections of said link being arranged to fold together and lie alongside of said movable part, said sections having openings therein which are adapted to coincide when the sections are in their folded position; an eye on said movable part arranged to extend through said openings when said link is folded; and means carried by the link adapted to enter said eye, to lock said sections in their folded position and secure said movable part to said fixed part.

4. The combination of a window casing; a window hinged at one edge in said casing; a flat jointed link having its ends pivoted to said window and said casing, the sections of said link being adapted to fold together flatly alongside each other and lie alongside the free edge of said window; a latch pivotally mounted on the link section which is connected to said casing; and a member carried by the free edge of said window and adapted to cooperate with said latch to lock said link sections together in their folded position, the point of operative engagement of said locking members being adjacent to the points of attachment of said link sections to said window and said casing.

5. The combination of a fixed part; a movable part; a jointed link connecting said parts; a latch pivoted to one section of said link; an eye on the other section of said link, said latch being arranged to lie across the joint between said sections to brace said sections and hold them in their extended

position, said sections being adapted to fold together and lie alongside said movable part; and means carried by said movable part arranged to project past said sections when folded, said latch being adapted to engage said means to prevent unfolding movement of said link.

6. The combination of a window casing; a window hinged at one edge to said casing; a link comprising a section pivoted at one end to said window casing for movement in a horizontal plane, another section pivoted to the first mentioned section for movement in a horizontal plane, the second mentioned section being pivoted to said window and being jointed to permit relative movement of its parts in a vertical plane; and a latch pivoted on said link and acting to hold the sections thereof in either their extended or folded position.

7. The combination of a window casing; a storm window hinged at its upper edge to said casing; a link comprising a section pivoted at one end to said window casing for movement in a horizontal plane; another section pivoted to the first mentioned section for movement in a horizontal plane, the second mentioned section being pivoted to said storm window and being jointed to permit relative movement of its parts in a vertical plane; a latch pivoted on the first mentioned section; an eye on the second mentioned section, said latch being movable across the joint between said sections into engagement with said eye to brace said joint and hold said sections in their extended position; and an eye carried by said storm window and adapted to cooperate with said latch for locking said sections together when folded, and securing the window in its closed position.

8. A device of the character described comprising two sections pivotally connected together, a latch pivoted to one of said sections, an eye upon the other section, said latch being adapted to lie across the joint between said sections and enter said eye and brace said sections to hold them in their extended position, and means cooperating with said latch for locking said device in its folded position.

9. A device of the character described having its ends adapted for permanent connection to a hinged member and its casing and consisting of a folding link, said link being jointed to permit relative movement of the ends thereof in two different planes; and means mounted on said link for holding the sections of said link in their extended position.

10. A device of the character described consisting of a folding link, said link being jointed to permit relative movement of the ends thereof in two separate planes; and means including a latch carried by one of

the link sections for holding the link in either its extended or its folded position.

11. A device of the character described, comprising a folding link, a latch pivotally mounted on one of the link sections, said latch when extending in one direction from its pivot being arranged to engage the adjacent link section for holding the link extended, and a member adapted to cooperate

with said latch when extending in the opposite direction from its pivot for locking the link in its folded position.

LEWIS P. NELSON.

Witnesses:

JOHN J. ENGLISH,
HARRY BAIN,
GEORGE L. CHINDAHL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."