No. 704,541. Patented July 15, 1902.

J. HOLY.

WINDOW SASH HINGE.

(Application filed Apr. 16, 1902.)

(No Model.)

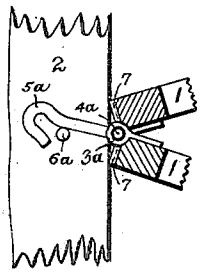


Fig. 3.

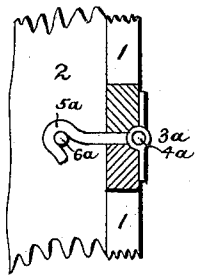


Fig. 4.

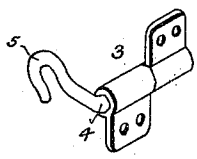


Fig. 5.

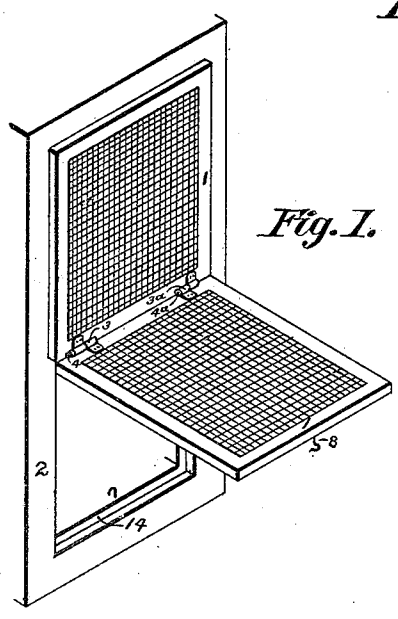


Fig. 1.

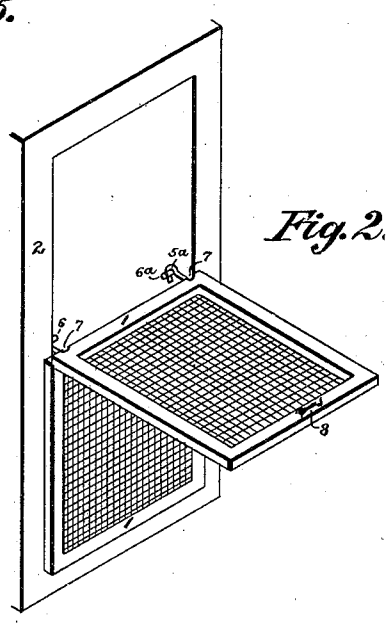


Fig. 2.

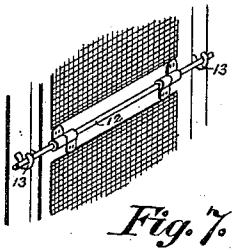


Fig. 7.

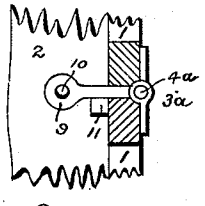


Fig. 6.

Witnesses;
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Inventor;
John Holy,
By Harry Grease. Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN HOLY, OF CANTON, OHIO.

WINDOW-SASH HINGE.

SPECIFICATION forming part of Letters Patent No. 704,541, dated July 15, 1902.

Application filed April 16, 1902. Serial No. 103,083. (No model.)

To all whom it may concern:

Be it known that I, JOHN HOLY, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented a new and useful Window-Sash Hinge, of which the following is a specification.

My invention relates to an improved hinge for use more particularly in a window-screen formed in two parts or sash; and the object of the improvement is to provide a hinge by means of which the screen-sash can be readily attached to the window-frame and detached from it without the use of any screws, tools, or other appliances and by which when so attached the respective sash can be opened or closed, as may be desired. I attain this object by the instruments illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a window-frame with two screen-sash, showing the lower sash open; Fig. 2, a similar view showing the upper sash open; Fig. 3, a fragmentary sectional view showing the method of attaching and detaching the sash from the frame; Fig. 4, a similar view showing the attachment completed and both sash closed; Fig. 5, a detached perspective view of the preferred form of hinge; Fig. 6, a fragmentary sectional view showing a slight variation of the hinge; and Fig. 7, a fragmentary perspective view showing another variation thereof.

Similar numerals refer to similar parts throughout the drawings.

The two similar sash 1 are adapted to cover the opening of the window-frame 2 and to rest against the face of the frame at the respective edges thereof. Similar hinges 3 and 3^a are attached to and connect the sash at their respective abutting edges, the hinge-pins 4 and 4^a, respectively, being located on the outer side of the sash with reference to the window-frame. One end of each hinge-pin 4 and 4^a is extended beyond the end of the respective hinges and bent substantially at right angles inward, and on the inner ends of these extensions are formed the hooks 5 and 5^a, respectively.

To attach the sash to the window-frame, the sash are folded nearly together, and the hooked ends of the respective hinge-pin extensions are placed over and beyond the posts or pins 6 and 6^a, which are located on the respective inner sides of the window-frame, as shown in Fig. 3. The sash are then opened apart—that is, they are closed against the window-frame—by which movement the hooked ends of the hinge-pin extensions respectively engage the frame-pins, as shown in Fig. 4, thus holding the sash firmly against the window-frame. In this position either of the sash can be opened and closed at will, for the other sash is firmly held by the hooks against the window-frame, as shown in Figs. 1 and 2. The notches 7 are provided in the edges of the respective sash to accommodate the shanks of the hinge-pin extensions. Ordinary hooks 8 or other locks are provided at the free edges of the sash for holding them closed against the window-frame; and the sash can easily be detached from the window-frame by merely reversing the process described for attaching to the same.

The hinge-pin extensions can be varied by forming the eye 9 on the ends thereof instead of a hook, in which case the eye is sprung over the end of the short pin 10 or else the pin is inserted through the eye after it is in place, and the block 11 can be provided on the window-frame to support the shank of the hinge-pin extension when it is desired to open both sash at once, as shown in Fig. 6, or another variation of my hinge can be arranged by making the hinge-pin in the form of a straight bar or rod 12, extending on both sides beyond the sash, and by securing the same in hooks 13, located in the face of the window-frame, as shown in Fig. 7; and it will also be understood that the sash can as well rest against a recessed face, as 14 in Fig. 1, of the window-frame as against the outer side without affecting the nature of my invention.

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

1. The combination of a window-frame, sash located against the face of said frame, hinges connecting the abutting edges of said sash, the hinge-pins being located on the outer side of said sash, and means for detachably connecting said hinge-pins with the window-frame.

2. The combination of a window-frame, pins projecting from the inner sides of said

frame, sash located against the face of said frame, hinges connecting the abutting edges of said sash, the hinge-pins being located on the outer side of said sash, and hooked hinge-pin extensions directed inward and adapted to engage said frame-pins.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN HOLY.

Witnesses:
HARRY FREASE,
JOSEPH FREASE.