No. 875,047. PATENTED DEC. 31, 1907.

F. BURSIK.

HANGER OR SEPARABLE HINGE FOR STORM SASH.

APPLICATION FILED APR. 24, 1907.

Fig. 1.

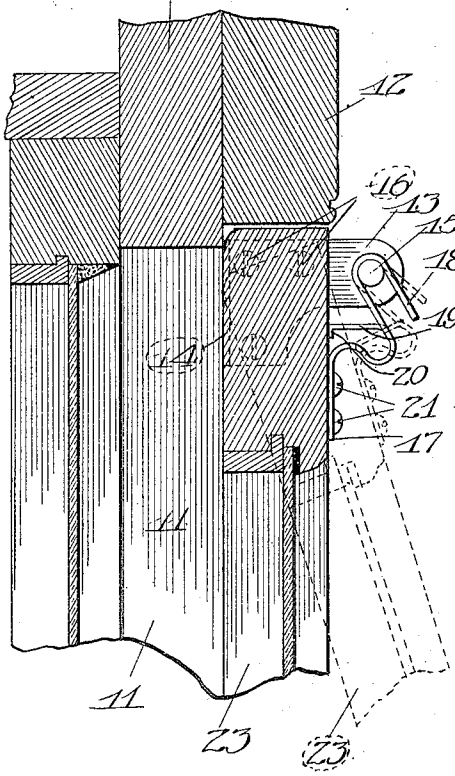


Fig. 2.

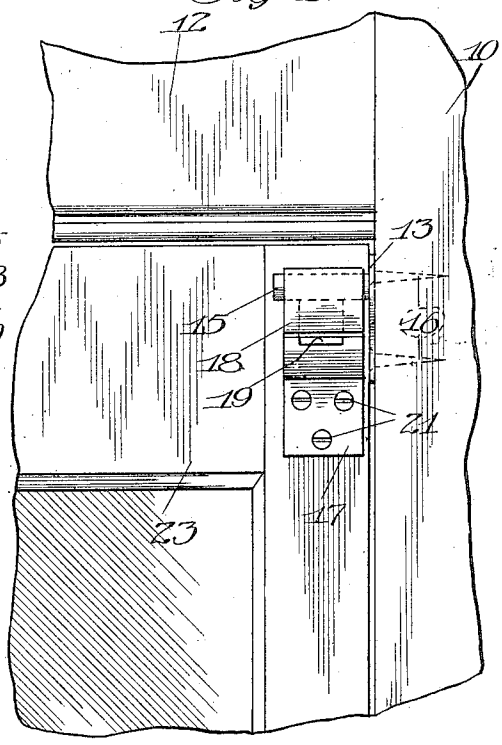


Fig. 3.

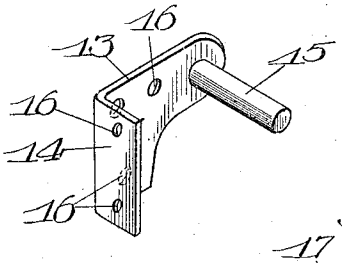


Fig. 4.

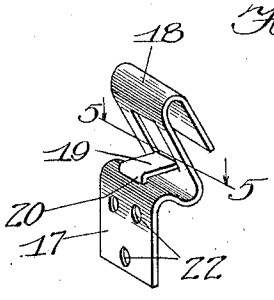
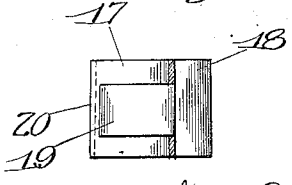


Fig. 5.



Witnesses:

Jno. D. Perry

J. F. Jochum Jr.

Inventor:

Frank Bursik

by Brown Hopkins

Attys

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK BURSIK, OF CHICAGO, ILLINOIS.

HANGER OR SEPARABLE HINGE FOR STORM-SASH.

No. 875,047. Specification of Letters Patent. Patented Dec. 31, 1907.

Application filed April 24, 1907. Serial No. 369,975.

To all whom it may concern:

Be it known that I, FRANK BURSIK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Hangers or Separable Hinges for Storm-Sash and the Like, of which the following is a specification.

This invention relates to improvements in hanger or separable hinge for storm sash and the like, and the object of the invention is to provide an improved, simple, cheap, durable and efficient device of this character, which will exert a spring tension upon the sash to firmly hold the latter in position when closed, to provide a tight connection.

To the attainment of these ends and the accomplishment of other new and useful objects, as will appear, the invention consists in the features of novelty in the construction, combination, and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawing illustrating an exemplification of the invention, and in which,

Figure 1 is a longitudinal sectional view of a sash having this improved hanger applied thereto, and showing the sash in full lines in a closed position, and in dotted lines in an open position; Fig. 2 is a front elevation of Fig. 1; Fig. 3 is a detail perspective view of one of the parts of the hinge or hanger; Fig. 4 is a detail perspective of the other part of the hinge or hanger; Fig. 5 is a detail sectional view on line 5—5 of Fig. 4.

Referring more particularly to the drawing, the numeral 10 designates generally a window frame provided with the usual blind stop 11 and the outer molding 12.

The numeral 13 designates a plate or body portion, preferably provided with a flanged extremity 14 located at one end thereof, and a laterally projecting lug or pintle 15 at the other extremity thereof; and the whole comprises one of the members of a separable hinge or hanger. The body portion of the member formed by the plate 13 and flange 14 is preferably provided with suitable apertures 16, and said member is secured in position preferably with the body portion resting against the molding 12, and the flanged portion 14 against the adjacent blind stop 11, and said member is held in position adjacent the upper portion of the sash in any desired or suitable manner, preferably by means of crews or the like which pass through apertures 16 and into the frame work. The body portion 13 of the member is preferably of such length that the laterally projecting lug or pintle 15 will stand beyond the outer face of the molding, and project inwardly towards the opening in the sash.

The other member of the hinge comprises a body portion designated generally by the reference numeral 17, one extremity of which is preferably bent into a hook-shape portion 18, which opens downwardly, as shown more clearly in Fig. 4. This hook-shape portion is preferably off-set from the body portion 17, so as to form a yielding extremity. A portion of the body of the hook-shape extremity 18 is stamped or cut out to form a tongue or projection 19, and said tongue or projection is adapted to be bent downwardly so as to project from the rear face of the hook shape portion 18, as shown more clearly in Fig. 4, and the extremity 20 thereof may be bent or flanged to form an extended or broad bearing face for a purpose to be set forth. This member of the hinge or hanger is adapted to be secured to the upper edge or the outer face of the sash in any desired or suitable manner, preferably by means of screws or bolts 21 which pass through suitable apertures 22 in the body portion 17, and is preferably so located that the upper extremity of the hook-shape portion 18 will be located a short distance from the upper edge of the sash, as shown more clearly in Figs. 1 and 2 of the drawing. Said hook-shape extremity 18 is spaced from the outer face of the sash, the tongue or projection 19 being of such a length that the extremity 20 will be normally out of engagement but in close proximity to the outer face of the sash 23. Any desired number of these hinges or hangers may be employed, but it is preferable to apply one to each of the upper corners of the sash.

When the member 13 is secured in position, and the member 17 is secured to the sash 23, the sash may be placed in position by placing the same at an angle to the window frame, as shown more clearly in Fig. 1 of the drawing, and said angle of inclination may be varied to any suitable extent, so as to permit the hook-shape extremity 18 to be passed over or placed in engagement with the lug or pintle 15. When the hook-shape extremity has engaged the pintle the sash may be moved about the hinge, thus formed, into the position shown in full lines in Fig. 1.

The pintle 15 is so disposed or is located at such a distance from the edge of the blind stop 11, that when the sash 23 is moved into the position shown in full lines in Fig. 1, the hook-shape extremity 18 will be placed under a tension, and will cause the extremity 20 of the tongue or projection 19 to engage the outer face of the sash 23, as shown in full lines in Fig. 1, and force the sash firmly against the blind stop 11, thereby forming a tight connection, preventing the sash from rattling. When it is desired to remove the sash, all that is necessary is to swing the same about its points of pivotal support into the position shown in Fig. 1, which will release the tension of the hook-shape extremity 18 of the member 17 and cause the extremity 20 of the tongue or projection 19 to assume its normal position out of engagement with the outer face of the sash, as shown in dotted lines in Fig. 1, owing to the elasticity of the hook-shape extremity 18. With this improved construction, it will be noted that the tongue or projection 19 not only serves as a means whereby the sash may be forced against the blind stop, but also serves to protect the hook-shape extremity to prevent the same from being strained or broken.

In order that the invention might be fully understood by those skilled in the art, the details of the foregoing embodiment thereof have been thus specifically described, but

What I claim as new and desire to secure by Letters-Patent is:—

1. A hanger or separable hinge for sashes and the like, comprising two members, one of which is adapted to be secured to a window frame or its blind stop and the other to the sash, and a sash stop adjacent and spaced from the face of the sash, one of the members being elastic, whereby a tension will be exerted upon the sash when the members are in engagement and the sash is closed, to force the latter against the stop.

2. A hanger or separable hinge for sashes and the like, comprising two members, one of which is adapted to be secured to a window frame or its blind stop, and the other to the sash, one of the members being provided with a pintle and the other with a yielding extremity adapted to engage and move about the pintle, said pintle being located adjacent and out of engagement with the face of the sash and so spaced with relation to the sash stop that when the sash is closed the said yielding extremity will be placed under tension between the pintle and the sash stop to force the sash against the stop.

3. A hanger or separable hinge for sashes and the like, comprising two members, one of which is adapted to be secured to the sash and provided with a yielding extremity out of engagement with the sash, the other member being adapted to be secured to the window frame or its blind stop and provided with a pintle adjacent the outer face of the sash, and spaced therefrom and adapted to be engaged by the yielding extremity of the other member, said pintle being so disposed with relation to the sash stop that when the sash is moved into a closed position the said yielding extremity will be placed under tension.

4. A hanger or separable hinge for sashes and the like, comprising two members, one of which is adapted to be secured to the sash and provided with a yielding hook shape extremity adjacent and out of engagement with the outer face of the sash, and the other member being adapted to be secured to the window frame or its blind stop and provided with a pintle extending across and spaced from the outer face of the sash, said pintle being adapted to be engaged by the hook shaped extremity of the other member and being so disposed with relation to the sash stop that when the sash is in engagement with the stop the hook shaped extremity will be placed under tension.

5. A hanger or separable hinge for sashes and the like, comprising two members, one of which is adapted to be secured to the sash and provided with a yielding hook shape extremity adjacent and out of engagement with the outer face of the sash and the other member being adapted to be secured to the window frame or its blind stop and provided with a pintle extending across and spaced from the outer face of the sash, said pintle being adapted to be engaged by the hook shaped extremity of the other member and being so disposed with relation to the sash stop that when the sash is in engagement with the stop the hook shaped extremity will be placed under tension and disposed between the outer face of the sash and the said pintle.

6. A hanger or separable hinge for sashes and the like, comprising two members, one of which is adapted to be secured to the sash and provided with a yielding extremity spaced from the face of the sash, said extremity being provided with a projection adjacent but normally out of engagement with the sash, the other member being adapted to be secured to the window frame or its blind stop and provided with a projecting pintle extending across the face of the sash and out of engagement therewith and adapted to be engaged by the said yielding extremity, a sash stop, said pintle being so disposed with relation to the sash stop that when the sash is closed the yielding extremity will be placed under tension and the projection forced into engagement with the sash to hold the latter firmly in position.

7. As an article of manufacture a sash hanger comprising a body portion having a yielding extremity located out of the plane of its body portion, and a projection on the

extremity for limiting the yielding movement thereof.

8. As an article of manufacture a sash hanger comprising a body portion having a yielding hook shaped extremity and a lateral projection on the said extremity for limiting the yielding movement thereof.

9. As an article of manufacture a sash hanger comprising a body, one end of which is bent to form a yielding hook shaped extremity a portion of said extremity being cut out and bent to form a laterally projecting stop.

10. As an article of manufacture a sash hanger comprising a body portion, one end of which is offset and bent upon itself to form a yielding hook shaped extremity, a portion of said extremity being cut out and bent to form a rearwardly projecting stop extending in the direction of the body portion, said stop terminating short of the plane of the rear face of the body portion.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 22nd day of April A. D. 1907.

FRANK BURSIK.

Witnesses:
J. L. JOCHUM, Jr.,
M. W. CANTWELL.