

No. 678,701.

Patented July 16, 1901.

J. B. TUOR.
SEPARABLE HINGE.

(Application filed Apr. 9, 1901.)

(No Model.)

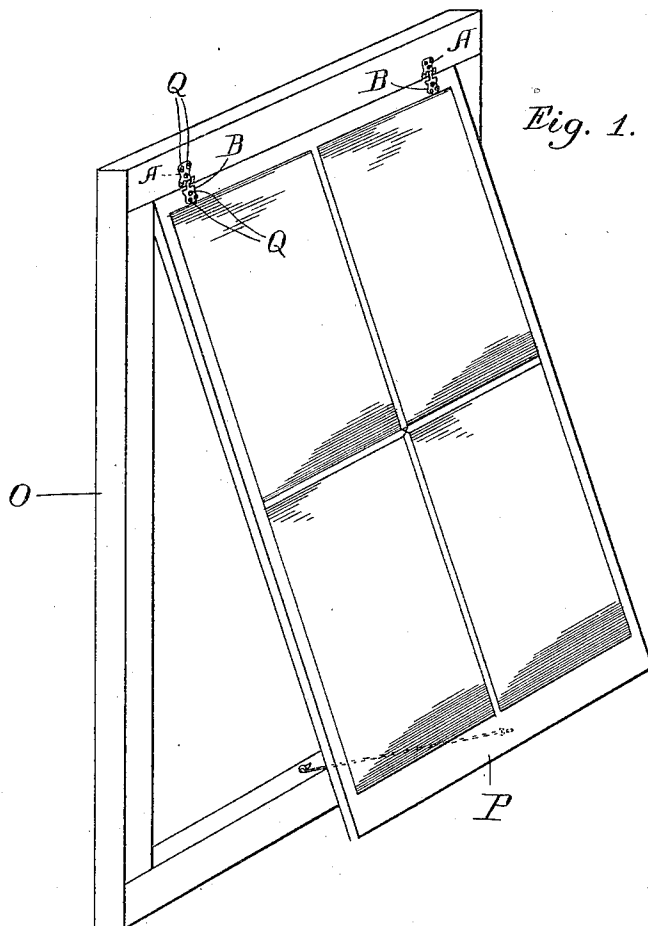


Fig. 1.

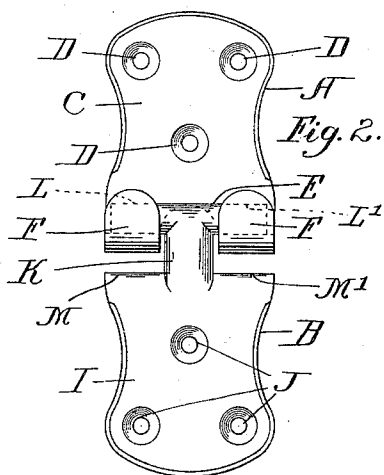


Fig. 2.

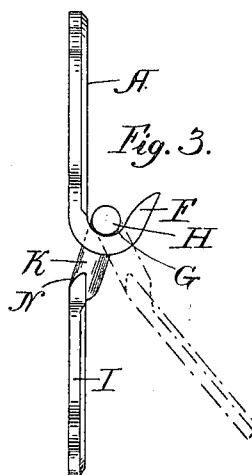


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH B. TUOR, OF ST. PAUL, MINNESOTA.

SEPARABLE HINGE.

SPECIFICATION forming part of Letters Patent No. 678,701, dated July 16, 1901.

Application filed April 9, 1900. Serial No. 12,113. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH B. TUOR, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Storm-Sash Hangers, of which the following is a specification.

My invention relates to improvements in separable hinges. Its object is to provide means for attaching sashes or doors so that they may be easily and quickly hung or detached from their frames.

My device consists, in combination with the frame and its sash or door, of two hinge-plates, one having two curved arms forming open bearing-seats and the other an outwardly-inclined shank carrying a cross-bar and shoulders below the bar on the pintle-plate adapted to cooperate with the bar to prevent the bar moving from the seats when the plates are in normal position and allow the parts to separate when one of the plates is inclined outward.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of the window-frame, showing a storm-sash attached by my improved hinge, the sash being open. Fig. 2 is a plan view of the separable hinge, showing the parts in normal position; and Fig. 3 is an edge view in elevation of the device as shown in Fig. 2, showing the pintle-plate inclined by the broken lines when the sash is open, as shown in Fig. 1.

In the drawings let A represent the supporting member, and B the pintle member, of the separable hinge. The supporting and pintle members consist of the plates C and I, which are provided, respectively, with screw-holes D and J for fastening the plates to the frame and its sash, as shown in Fig. 1. The supporting-plate is bifurcated at E and formed with the arms F, which are curved up to form the open bearing-seats G, in which the bar H of member B is adapted to rest when the plates are in normal position, as shown in Fig. 2. The pintle-plate I is formed with the shank K, which is inclined outward from its upper end. This shank is adapted to pass between the arms F when the plates are connected. The shank carries the cross-bar H, which with the shank forms substantially a

T on the pintle-plate. The bar is positioned parallel to the front and back faces of the plates. The object of inclining the shank is to position the plates normally in alinement and to enable the plates to be attached to the surface of the sash or door and the frame without recessing, as is now customary with a great many hinges in general use. The plate I is also formed with the stop-shoulders M and M', which are positioned, respectively, below arms L and L' of the bar H. The stop-shoulders are beveled at N, so that the bar may not be removed from the bearing-seats except by swinging the pintle member to the position indicated by broken lines in Fig. 3 and then lifting the bar out of the bearing-seats of member A.

In use the supporting-plate is fastened to the frame, as shown in Fig. 1, and the pintle member to the sash or door by screws Q. To attach the sash or door to the frame, the sash or door is held inclined from the top of the frame sufficiently to allow the bar to pass into the bearing-seats of the frame F. To remove the sash or door, the operation is reversed.

Having described my invention, what I claim as new, and desire to protect by Letters Patent, is—

A separable hinge, consisting in combination with a window-frame and its sash, of a supporting-plate having a pair of arms curved upwardly from its lower end to form open bearing-seats, and a pintle-plate having a shank inclined outwardly from its upper end to render the plates in substantial alinement when in normal position, a cross-bar on the outer end of said shank, forming with the shank substantially a T the bar of which is adapted to rest in said seats, and beveled shoulders below said bar, adapted to cooperate with the bar to prevent normal displacement of the bar from the seats, also to allow the pintle and hanger plates to separate when one of said plates is inclined outwardly.

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

JOSEPH B. TUOR.

Witnesses:

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