

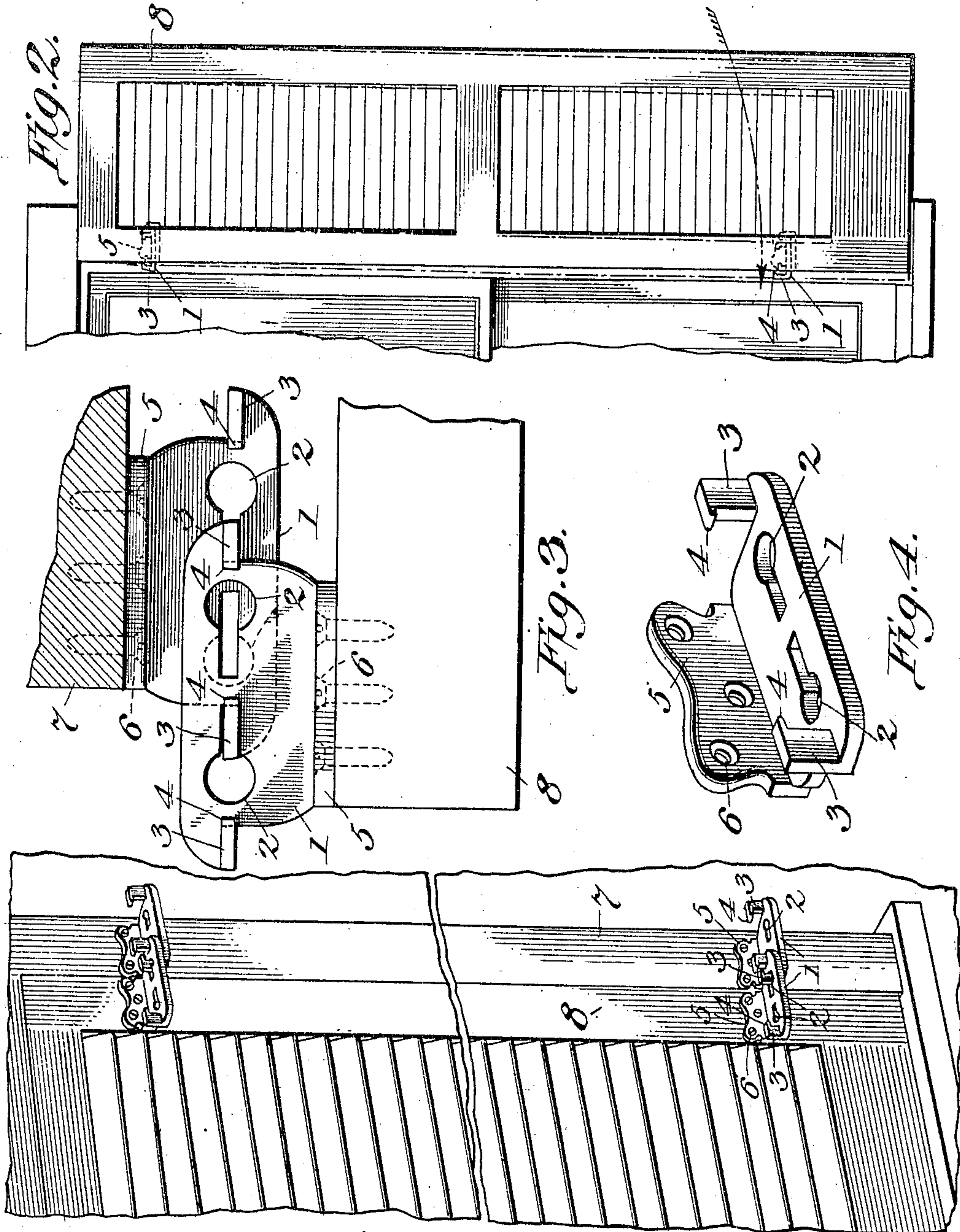
No. 844,629.

PATENTED FEB. 19, 1907.

J. W. TATUM.

HINGE.

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Witnesses:
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Fig. 1.

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UNITED STATES PATENT OFFICE.

JAMES W. TATUM, OF DURHAM, NORTH CAROLINA.

HINGE.

No. 844,629.

Specification of Letters Patent.

Patented Feb. 19, 1907.

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To all whom it may concern:

Be it known that I, JAMES W. TATUM, a citizen of the United States, residing at Durham, in the county of Durham and State of North Carolina, have invented new and useful Improvements in Hinges, of which the following is a specification.

My present invention relates to certain new and useful improvements in hinges, and more particularly to what are known as "stop-hinges," especially adapted for use in hanging shutters or outside blinds.

The prime object of the invention is to provide a hinge wherein both members are identical in construction, thus obviating the necessity of making "rights" and "lefts."

A further object of the invention is to provide each hinge member with duplicate interlocking elements, so that in event of one of the said elements becoming broken the said member may be reversed so as to bring the other element into position for use.

A still further object of the invention is to provide a hinge the two members of which are constructed and arranged to have when hung a gravity-locking action, the interlocking elements of which may be disengaged with little exertion on the part of the user.

To these and other ends the invention comprises the features of construction and arrangement of parts hereinafter described in detail and then more definitely pointed out in the claims.

Referring to the annexed drawings, in which I have illustrated the preferred embodiment of the invention, Figure 1 is a perspective view looking at the outside of one side of a window-frame, showing a shutter hung by hinges constructed in accordance with this invention. Fig. 2 is an elevation showing the shutter swung to full-open position. Fig. 3 is an enlarged top plan view showing the position of the two hinge members when the shutter is fully open and locked. Fig. 4 is a perspective of a complete hinge member constructed according to my invention.

As both hinge members are identical in construction a description of one will suffice.

Referring to Fig. 4 of the drawings, which illustrates in perspective the preferred embodiment of the invention, the reference-numeral 1 designates a plate having formed therein a pair of substantially keyhole-slots 2, the narrow legs of the slots of the pair facing each other and extending parallel with the

front edge of the plate 1. Projecting upward from each end of the plate 1 and located closely adjacent the circular portion of each keyhole-slot 2 is a tongue 3, having an inwardly-extending nose 4, for a purpose presently to be made to appear. The maximum width of the tongue 3 is slightly less than the diameter of the circular portion of the keyhole-slot, so that the said tongue may be caused to enter and turn freely in the said circular portion of the keyhole-slot of a companion hinge member. The opposite sides of the tongue are flat, as shown, and of such dimensions as to enable it to enter the narrow leg portion of the keyhole-slot of a companion-hinge member, as is required when it is desired to lock the hinge members against turning movement.

Suitable means is provided for attaching the hinge in position for use, which in the present embodiment is shown as a right-angular extension 5, formed integral with the plate 1, said extension having suitable screw-openings 6.

While I have shown and described each hinge member as having two keyhole-slots 2 and two tongues 3, it will be apparent that only one each of these elements is actually brought into use at a time, the other two being provided for use in case of breakage and in order to make the hinge reversible. Obviously it is within the scope and spirit of the invention to provide each hinge member with but one keyhole-slot and one tongue.

In order to hang a shutter with my improved hinge, the members are attached to the shutter and frame, as shown in Fig. 1, the plate 1 of each member lying in a horizontal plane and the tongues 3 of the members attached to the window-frame 7 projecting through the circular portions of the keyhole slots 2 of the members carried by the shutter 8. With the parts in this position it will be apparent that upon swinging the shutter to open position the tongues 3 will act as pintles about which the shutter may swing. When the shutter reaches its full-open position, as shown in Fig. 2, by reason of its gravity action the lower end thereof will move inward automatically in the direction of the arrow in said figure until it assumes the dotted-line position, thus bringing the tongue 3 of the lower-hinge member, that is attached to the frame 7, into the narrow portion of the keyhole-slot of the companion hinge member carried by the shut-

ter 8, which will cause the said two members to become temporarily locked and hold the shutter against swinging movement, all as more clearly shown in Fig. 3. During the inward-swinging movement just described, which results in automatically locking the shutter, the latter "pivots," so to speak, on the hinge members attached to the upper part of the shutter and frame, respectively. When it is desired to close the shutter, it is simply necessary to push the lower end thereof outward until the tongue is moved out of the narrow portion of the keyhole-slot and brought into the circular portion thereof, and when in this position the shutter may be swung to closed position, as will be obvious.

The projecting nose 4 on the tongue 3 serves to prevent accidental separation of the hinge members when two of such members are properly assembled—as, for instance, when used to hang a shutter, as shown in the accompanying drawings.

I do not wish to limit myself to the precise form and construction of hinge member herein shown and described, except as I may be limited by the terms of the appended claims, as I recognize that changes or additions may be made without evading the spirit of the invention.

What I claim is—

1. A hinge member comprising a plate having a keyhole-slot and a tongue rising upward from the face of the plate adjacent the said slot.

2. A hinge member comprising a plate having a keyhole-slot and a tongue rising upward from the face of the plate, in line with and adjacent the said slot.

3. A hinge member comprising a plate having a keyhole-slot and a tongue projecting from the face of the plate, in line with and adjacent the said slot, said tongue having a projecting nose.

4. A hinge member comprising a plate having a keyhole-slot and a tongue projecting from the face of the plate, in line with and adjacent the said slot, said tongue having flattened sides.

5. A hinge member comprising a plate having a pair of keyhole-slots, and tongues projecting from the face of the plate, one adjacent each slot.

6. A hinge member comprising a plate having a pair of keyhole-slots in line with each other and tongues projecting upward from the face of the plate at opposite ends thereof, said tongues being in line with the keyhole-slots.

7. A hinge member comprising a plate having a pair of keyhole-slots located in alignment and tongues projecting upward from the face of the plate at opposite ends thereof, the opposite faces of said tongues being flat.

8. A hinge member comprising a plate having a pair of keyhole-slots located in alignment and parallel to the outer edge of the plate, a tongue projecting upward from the face of the plate adjacent the circular portion of each keyhole-slot and an inwardly-extending nose on the upper end of each tongue.

9. A hinge comprising two identical members each consisting of a plate having a keyhole-slot and a tongue projecting upward from the face of the plate and located adjacent and in line with the slot, the tongues and slots of the two hinge members being complementary.

10. A hinge comprising two members each consisting of a plate having a keyhole-slot and a tongue projecting upward from the face of the plate and located adjacent the circular portion of the slot, said tongue having an inwardly-projecting nose, the tongues and keyhole-slots of the two hinge members being complementary.

11. A hinge member comprising a plate having a keyhole-slot, a tongue projecting from the face of the plate adjacent and in line with said slot, and an angular extension at one side of the plate for attaching the latter in position.

12. A hinge member comprising a plate having a pair of keyhole-slots arranged in line with each other, and an angular extension at one side thereof, and tongues projecting from the face of the plate adjacent the circular portion of each slot.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JAMES W. TATUM.

Witnesses:

J. GRANVILLE MEYERS,
GERTRUDE M. STUCKER.