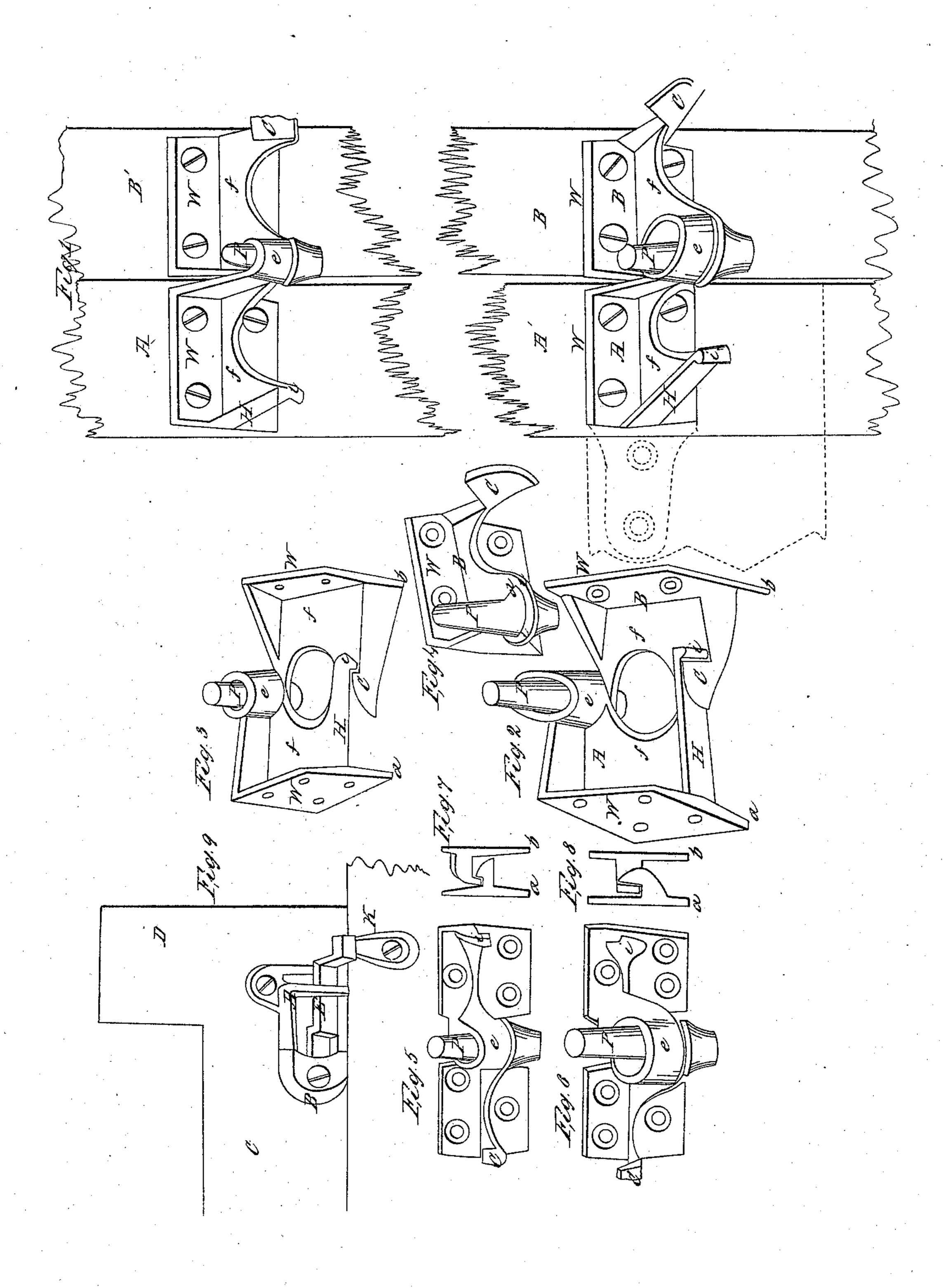
M. Bolker,

Lock Hinge,

Nº8.869.

Patented Apr. 13, 1852.



UNITED STATES PATENT OFFICE.

WM. BAKER, OF UTICA, NEW YORK.

HINGE.

Specification forming part of Letters Patent No. 8,869, dated April 13, 1852; Reissued August 28, 1855, No. 326.

To all whom it may concern:

Be it known that I, WILLIAM BAKER, of the city of Utica, in the county of Oneida and State of New York, have invented a 5 new and useful Window-Blind Hinge and Fastener; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accom-10 panying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents both the upper and lower hinges, as constructed for brick, or 15 stone houses, and as seen upon the outside, the blind being hung and closed. Fig. 2, is the lower hinge as seen separate from the blind, and in the position exhibited when the blind is thrown open and fastened.

20 Fig. 3 is the like exhibit of the upper hinge when the blind is open and fastened. Fig. 4 is the under, or stationary part of the 25 constructed for wooden or frame buildings, the backs of the hinges being here seen in the position occupied by them when the blind is closed. Figs. 7 and 8 show the outer ends of the last mentioned hinges, and 30 the locking and fastening of each as seen when the blind is thrown back against the wall of the house.

The same letters refer to like parts in all

the drawings.

Fig. 9 is an inside fastening used to fasten the blinds when closed. It consists of three parts or pieces. The frame A, B, which is screwed fast to the inside of the blind frame C, D, the latch E, and the catch K, 40 the latter being screwed down upon the window bench in a position suitable to receive the latch E, when the blind is brought to a close. The latch plays loosely on the 45 similar to that of an ordinary door latch. | the blind swings around strikes the inner

providing a bridge, or inclined plane at the base of the pin on which the eye of the hinge turns, upon which bridge the eye--which is 50 suitably elongated for that purpose—slides up by the action of the hand in closing the blind, thus raising the blind and disengaging a fastening in both the upper and lower hinge; these operating upon and in connec-

tion with a hook and catch attached and 55 connected in the manner hereinafter described, the whole forming a fastening and the mode of operating the same; the fastening taking hold of and pulling directly upon the window casing and the blind, and thus 60

relieving the hinge.

The mechanical contrivance by which this principle, or plan of fastening is applied, is simple and without complication. It is operated by a simple, and convenient effort 65 of the hand at the heel of the blind, exerted in the ordinary way of closing the blind, so that all liability to accident from mistake, in attempting to close the blinds without understanding the fastening is also avoided, 70 and this is done without increasing the usual number of parts or pieces composing an ordinary butt.

The annexed drawings fully show the form and construction of the hinge. A 75 single hinge consists of only two parts: lower hinge before mentioned. Figs. 5 and | the pin and the eye with their appendages. 6 exhibit the upper and lower hinges as The agency by which the blind is raised and lowered, belongs to the lower hinge. It consists in the bridge, or inclined plane a so (Fig. 4) cast solid at the base of the pin P, in connection with an elongated aperture in the eye, and the counter hooks i and C (Figs. 1, 2 and 3). The pin is round, as usual, tapering slightly to the top. The 85 bridge a is an oval projection, as indicated in the drawing, extending in the direction of the catch C, about three sixteenth parts of an inch horizontally at the base, and about the same in height. The eye on the 90 other part of the hinge is elongated in the direction of the catch, so that when the blind is thrown back against the wall, the under end of the eye settles upon the base of the pin, inclosing the pin and the bridge 95 a. Fig. 2 shows this position of the two parts of the hinge, as when the blind is wire of the screw at B, the operation being | thrown open and fastened. The hook i, as The nature of my invention consists in | face of the catch C, which assists in keeping 100 the eye elevated on the bridge until the hook i, passes the catch C, when the weight of the blind settles the eye to the base of the bridge carrying out the hook i, and fastening it to the catch as here seen. This will 105 be more clearly understood by looking at the back of the lower hinge as shown in Fig. 1. Here it is evident if the movable

part A, is swung around in opening the blind, the surface i, will strike the surface C, crowding back the eye upon the inclined plane of the bridge, until the hook i passes 5 the catch C, when the weight of the blind suddenly brings the hook and catch to the

position shown in Fig. 2. With respect to disengaging the fastening in order to close the blind, it is evident that 10 if the heel of the blind is brought back by a lateral movement to the position occupied by it immediately previous to the fastening, the work of unfastening will be accomplished. This is done by taking hold of the 15 corner of the blind, and pulling it toward you, in the ordinary way of closing a blind. The force thus exerted with a slight effort to raise the blind brings the eye of the hinge to the top of the bridge, sliding up on its 20 inclined plane. This disengages the fastening in both the upper and lower hinges, and the blind is readily brought to a close. The force thus exerted by the hand pulls the blind edgewise, and in the direction of the 25 extension of the bridge. Whereas the force of the wind when the blind is fastened or any other force calculated to bring the blind directly around, would not disengage the fastening. The inclined plane or bridge 30 here described for operating the fastening, may surround the pin, that is the whole base of the pin may form an inclined plane descending toward the catch C; in which case the base of the eye is made to conform to it. 35 In the operation of unfastening, the blind as before described is drawn edgewise in the direction from the catch C, the eye slides up on the inclined base of the pin disengaging both fastenings in the manner before de-40 scribed. No bridge, or inclined plane at the base of the pin, or elongation of the eye, are necessary on the upper hinge. The operation of the lower hinge gives a vertical motion to the blind, and this is different to fas-45 ten and unfasten a vertical catch in the upper hinge. The hook and catch however are attached to, and extend from the wings, or screw plates of the hinge in a similar manner to those of the lower hinge, forming a 50 fastening on the same principle, and with the same advantages as to strength and security, as that of the lower hinge. The wings, or plates W, are the parts of the hinge by which it is screwed to the blind, and 55 window casing. These form a line transverse to the extension of the hinge. They are screwed directly on the outside of the blind and window casing, as shown in Fig. 1, and are consequently parallel to each 60 other when the blind is thrown back against the wall, the fastening being in the space between them. The hook and catch are cast solid with the hinge. A', A' in the figure represent the blind frame, and B', B', the 65 window casing. The drawings show the

hinge of the full size, as made in ordinary cases, the wood work being here broken off between the upper and the lower hinge to bring them near together. The screw plates are extended in the direction here described 70 for the purpose of attaching to them the hook and catch for fastening. These plates may be made of the usual form to be screwed to the edge of the blind and the inside of the casing, and a strap or back brace may 75 be substituted, extending along the outside, to which the fastenings may be attached in like manner as described, but this complication is avoided by using the screwplates for both purposes.

Figs. 5 and 6 show the form of the hinge as constructed for wood or frame buildings, Fig. 5 being the upper and Fig. 6 the lower hinge. The plan of fastening and the operation are substantially the same as those be- 85 fore described. The bridge, or inclined plane at the base of the pin, and the elongation of the eye are the same. The extension of the hinge is shortened to suit the slight projection of the clapboards beyond 90 the casing of the window. i is the hook on the movable part of the hinge, and C the catch on the stationary part. The operation

is similar to that before described.

Figs. 7 and 8 show the manner in which 95 the two parts of the hinge in this case, are locked together when the blind is thrown back, Fig. 2 being the upper and Fig. 8 the lower fastening. The distance from a, to b, denotes the extension of the hinge, or the dis- 100 tance from the casing to the back side of the blind in wooden buildings, as that from a to b, (Figs. 2 and 3) denotes the extension of the hinge in the case of brick and stone buildings. This extension in either case is 105 of course to be varied to suit the projection of the wall of the house beyond the window casing; and the hinges are in all cases to be made rights and lefts to suit the two sides of the window. In cases where extra 110 strength is required, or for very heavy blinds, the movable part of the hinge may be cast with an extension of the plate substantially as indicated by the dotted line F (Fig. 1) reaching out upon the cross bar of 115 the blind, and thus strengthening the blind frame.

I do not claim as new simply constructing the window blind hinge with its screwplates so arranged as to be screwed to the back of 120 the blind and the outside of the window casing, but

I claim—

1. The bridge or inclined plane at the base of the pin and the corresponding elongation 125 of the eye operating upon and in connection with the hook and catch attached and connected in the manner described, the whole forming a fastening, and the mode of operating the same,—the fastening taking hold 130

of and pulling directly upon the window casing and the blind and thus relieving the

hinge as described.

2. I claim the use of the bridge or inclined plane at the base of the pin, and the elongation of the eye as described, for disengaging the blind fastening, independent of its connection with my fastening as above de-

scribed, and whether the fastening is connected with the hinge or not, the whole being constructed and arranged substantially in the manner above set forth.

WM. BAKER.

Witnesses:

CHARLES BARNUM, JOHN D. WILLIAMS.

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