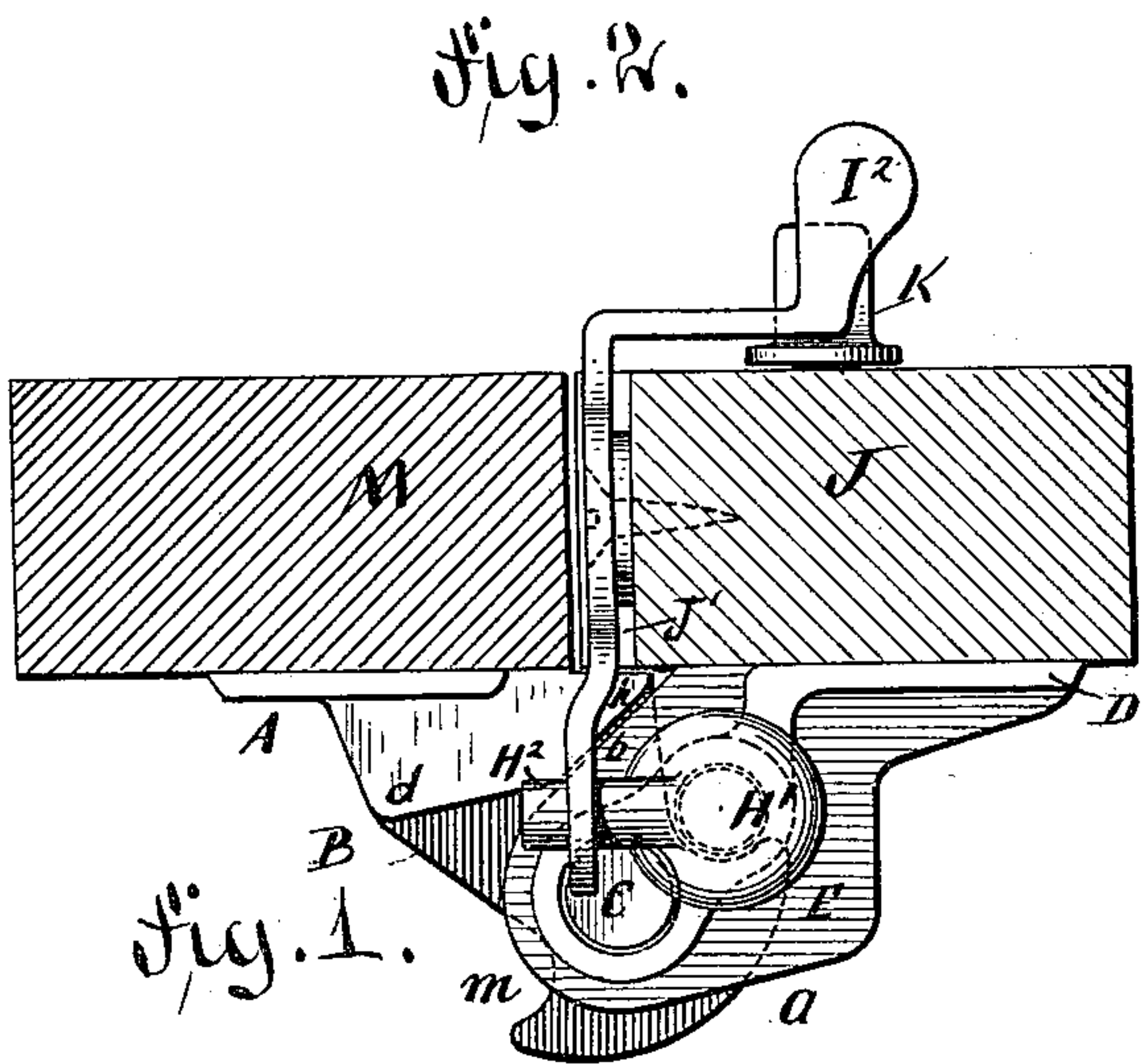


(No Model.)

J. WOLF.
LOCK HINGE.

No. 403,570.

Patented May 21, 1889.



UNITED STATES PATENT OFFICE.

JOSEF WOLF, OF NEWARK, NEW JERSEY.

LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 403,570, dated May 21, 1889.

Application filed August 17, 1888. Serial No. 282,951. (No model.)

To all whom it may concern:

Be it known that I, JOSEF WOLF, of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Lock-Hinges, of which the following is a specification.

This invention relates to lock-hinges more especially designed for fastening window-shutters and holding them in place.

10 In the accompanying drawings, Figure 1 is an elevation of my improved shutter-fastener, the shutter being closed. Fig. 2 is a plan view of the same, the shutter being closed and parts of the shutter and window-frame being
15 in section. Fig. 3 is a sectional plan view of my improved shutter-fastener, the shutter being open. Fig. 4 is a side view of the same, the shutter being open, parts being broken away, and others shown in dotted lines.

20 Similar letters of reference indicate corresponding parts.

The hinge-plate A is provided with a bracket, B, the vertical plane of which is at an angle to face the plate A, and from the top
25 of said bracket the hinge-pintle C projects upward.

The hinge-plate D is provided with a bracket, E, the longitudinal plane of which is also at an angle to the face of the plate D, and
30 on said bracket the socket F is formed for receiving the pintle C. The upper surface of the bracket B and the lower surface of the bracket E are made flat and smooth. On the top of the bracket E the tubular socket G is
35 formed for a vertically-sliding bolt, H, provided with a head, H', having a laterally-projecting arm, H², that enters an aperture in the outer end of a lever, I, pivoted in the recess or countersink J', in the inner edge of the
40 shutter J, the inner end of said lever I being bent and formed with a finger-plate, I². Below the inner end of the lever I a latch, K, is pivoted, which, when raised, rests against the bottom edge of the inner end of the lever
45 I and prevents pressing down said lever, thus preventing raising the bolt H. The bracket E is provided with the two opposite straight edges, *a* and *b*, and the bracket B is provided on its upper face near its inner edge with
50 shoulders *d* *h*, which form an obtuse angle, the former serving as a stop for the straight

edge *a* of the bracket E when the blind is opened, and the latter as a stop for the straight edge *b* of the bracket E when the blind is closed. Said bracket B is also provided at
55 opposite sides of the pintle C with the two opposite notches, *m* and *o*, the inner parts of which are rounded, or so shaped that the bolt H can fit snugly against them.

The hinge-plate A is fastened, by means of 60 screws or otherwise, to the window-frame M, and the plate D is fastened to the shutter J.

The operation is as follows: When the shutter is closed, the rounded edge of the notch *o* in the bracket B registers with one side of the
65 bore of the socket G, and the bolt H rests in and against the sides of the recess *o*, thus locking the parts in place. When it is desired to open the shutter, the inner end, I², of the lever I is depressed, whereby the outer end is
70 raised, and thereby the bolt H is withdrawn from the notch *o* and raised sufficiently to clear the top of the bracket B. The shutter is then opened slightly, the lever I released, and the bolt H descends until it rests upon
75 the top of the bracket B. If, then, the shutter is opened entirely, the bottom of the bolt H slides over the top of the bracket B until it arrives at the notch or recess *m*, into which it drops, thus locking the shutter in place in the
80 open position. The edge *a* of the bracket E now rests against the shoulder *d* of the bracket B and prevents swinging the shutter too far toward the wall, and also relieves both the bolt H and pintle C of undue strains in case
85 the wind rattles or acts upon the shutter. To close the shutter, the finger-plate I² of the lever I is again depressed for the purpose of raising the bolt H, the shutter is closed, and when the bolt H arrives at the notch *o* it drops
90 into the same, and thus locks the part in place.

When the shutter is closed, the edge *b* of the bracket E rests against the shoulder *h* of the bracket B, thus assisting in holding the shutter in place and relieving the pintle and
95 bolt of undue strains.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In a lock-hinge, the combination, with a 100 hinge-plate, of a bracket thereon provided with a pintle, two opposite notches, and an-

gular shoulders on its upper face, a hinge-
plate provided with a socket for the hinge-
pintle, an additional socket and two straight
edges to rest against the angular shoulders of
5 the other bracket, a sliding bolt in the addi-
tional socket, and a lever for raising said bolt,
substantially as described.

In testimony that I claim the foregoing as
my invention I have signed my name in pres-
ence of two subscribing witnesses.

JOSEF WOLF.

Witnesses:

PAUL GOEPEL,
JOHN A. STRALEY.