

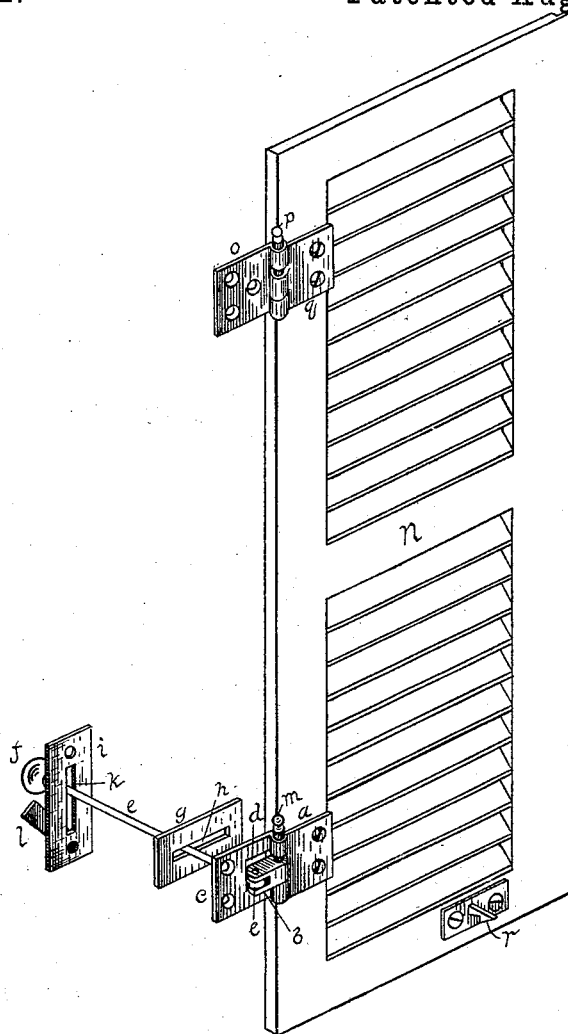
(No Model.)

L. SCHUERMANN.

SHUTTER WORKER.

No. 347,202.

Patented Aug. 10, 1886.



ATTEST
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INVENTOR
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UNITED STATES PATENT OFFICE.

LUDWIG SCHUERMANN, OF DECATUR, ILLINOIS.

SHUTTER-WORKER.

SPECIFICATION forming part of Letters Patent No. 347,202, dated August 10, 1886.

Application filed May 3, 1886. Serial No. 200,964. (No model.)

To all whom it may concern:

Be it known that I, LUDWIG SCHUERMANN, of the city of Decatur, county of Macon, and State of Illinois, have invented certain new and useful Improvements in Shutter-Workers, of which the following is a specification.

My invention consists in certain details of construction and combinations of parts, whereby outside window-shutters may be opened, closed, and locked from the inside of the house without opening the window, as hereinafter claimed.

In the drawings accompanying and forming a part of this specification, *a* represents a leaf of the hinge attached to a shutter.

b is a rigid extension of leaf *a* on the opposite side of the pintle.

c is a hinge-leaf coacting with leaf *a*, and provided with a recess, *d*, to receive and permit the free operation of extension *b*.

e is a rod or bar having a pivotal connection with extension *b*.

f is a knob or handle on rod *e*.

g is a plate provided with a horizontal slot, *h*, which acts as a fulcrum for rod *e*.

i is a plate provided with a vertical slot, *k*, which permits the free operation of the rod *e*, and provides lateral fulcrums for the same.

l is a lock-plate pivoted on plate *i* in such a manner that when swung under rod *e* it will hold the inner end of the same at its greatest elevation.

m is the pintle for hinge-leaves *a* and *b*.

n represents the blind to which my hinge is attached.

o and *q* are leaves of an auxiliary hinge, and *p* is the pintle for the same.

r represents a hook, by means of which and a coacting catch the blind is held open.

Leaves *c* and *o* are to be secured to the outer surface of the window-frame.

Plate *g* is to be set into the window-frame, near the outer surface of the same.

Plate *i* is to be secured to the inner surface of the window-frame.

Each shutter is to be provided with a hook on each side, and catches for same are to be located in the window-frame and on the outer surface of the wall respectively.

The individual leaves of the hinges have each a limited amount of independent vertical motion, in order that the shutter may rise sufficiently to free the hooks from contact with the catches on the window-frame and wall.

In operation knob *f* is pressed downwardly until rod *e*, acting as a lever, with its fulcrum in plate *g*, raises the blind sufficiently to disengage the hook from its catch. Said knob is then drawn back until the shutter passes the dead-center, and then pushed forward until the blind is entirely opened or closed, as the case may be. Under ordinary circumstances the shutter will be swung past the dead-center by pulling the knob; but in case of a failure in this regard plate *i* may be used as a lateral fulcrum and the shutter be carried by side pressure to a point where the longitudinal motion of the rod will become effective. The shutter may be locked when closed by raising rod *e* to its greatest elevation at the inner end and swinging lock-plate *l* under the same, a sufficient degree of rigidity in bar *e* being presupposed.

The hooks *r* and their coacting catches may be constructed in any suitable manner, and the general form of the hinges may be modified to suit different circumstances.

I claim as new and desire to secure by Letters Patent—

1. A shutter-worker consisting in a leaf adapted to be attached to a blind, a suitable pivot for said leaf, an extension of said leaf on the opposite side of the pivot, and a bar pivoted in said extension and adapted to extend to the inner surface of the window-frame.

2. A shutter-worker consisting in a leaf adapted to be secured to a blind, a pivot for said leaf permitting a limited amount of free vertical motion therein, an extension of the leaf on the opposite side of the pintle, a bar pivoted in said extension and adapted to extend to the inner surface of the window-frame, and a horizontal fulcrum under the bar.

3. A shutter-worker consisting in a leaf adapted to be secured to a blind, a pivot for said leaf permitting a limited amount of free vertical motion therein, an extension of the leaf on the opposite side of the pivot, a bar pivoted in said extension and adapted to extend to the inner surface of the window-frame, a horizontal fulcrum under the bar near the extension, and vertical fulcrums on each side of the bar near its inner end.

In testimony whereof I sign my name in the presence of two subscribing witnesses.

Attest: LUDWIG SCHUERMANN.

I. D. WALKER,
L. P. GRAHAM.