

(Model.)

W. S. DWINEL & E. P. MASON.
COMBINED HINGE AND BLIND FASTENER.

No. 301,224.

Patented July 1, 1884.

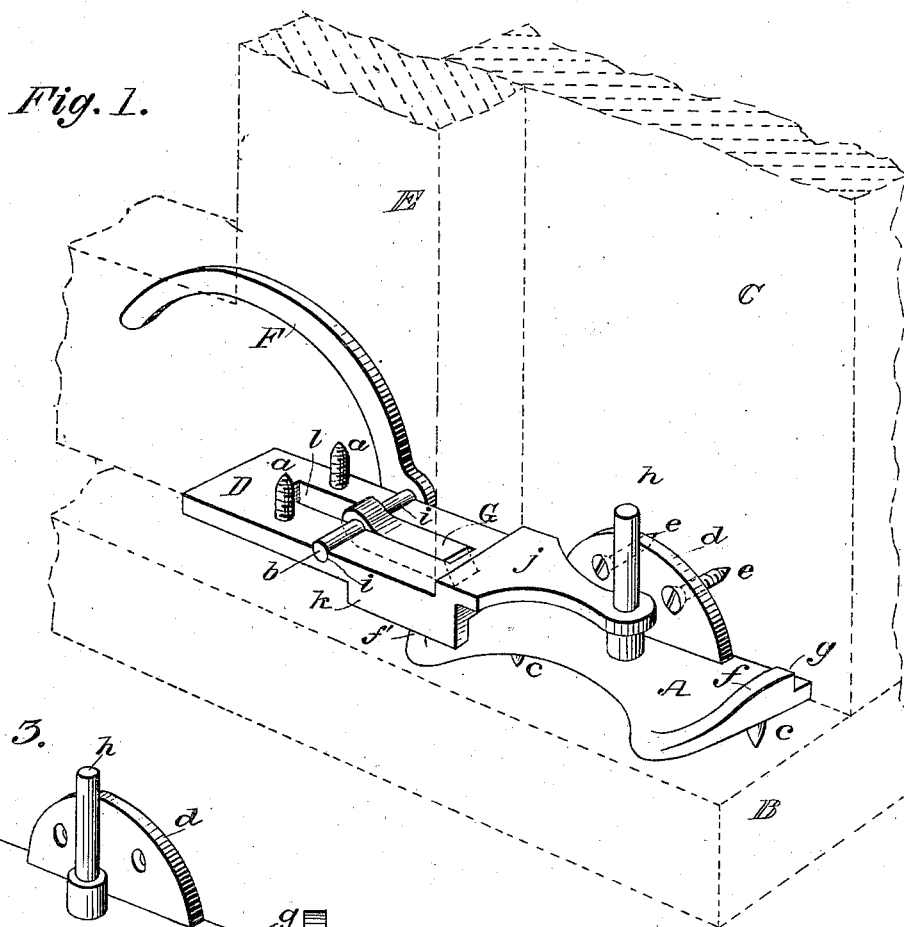


Fig. 1.

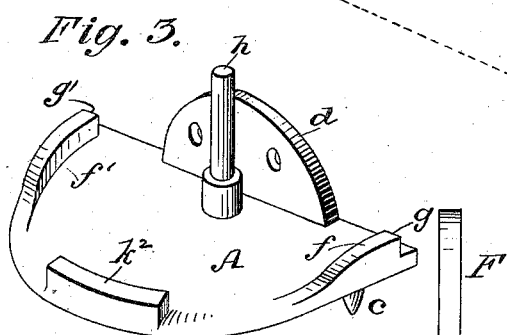


Fig. 3.

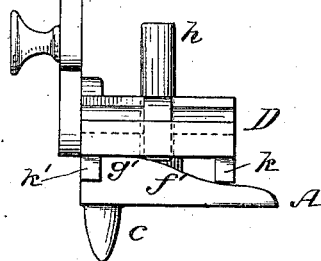


Fig. 2.

WITNESSES:

Donnerstag, 2. März
C. Sedgwick

INVENTOR:

W. S. Dwinel

E. J. Mason

BY

Munn Ho

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WARREN SMALL DWINEL AND EARL PIERCE MASON, OF PROVIDENCE,
RHODE ISLAND.

COMBINED HINGE AND BLIND-FASTENER.

SPECIFICATION forming part of Letters Patent No. 301,224, dated July 1, 1884.

Application filed August 31, 1883. (Model.)

To all whom it may concern:

Be it known that we, WARREN SMALL DWINEL and EARL PIERCE MASON, of Providence, in the county of Providence and State of Rhode Island, have invented a certain new and Improved Combined Hinge and Fastener for Window-Blinds, of which the following is a full, clear, and exact description.

The object of the invention is to improve lock-hinges, as hereinafter described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an outside perspective view of our new and improved hinge and fastener, the window-casing and blind being shown in dotted lines. Fig. 2 is an end elevation of our combined hinge and fastener, and Fig. 3 is a perspective view showing a modification of the main stationary leaf A.

Our new and improved combined blind hinge and fastener is composed of the main leaf A, which is adapted to be secured in a fixed position to the window-sill B and window-casing C, the leaf D, that is adapted to be secured by the screws *a a* to the lower edge of the window-blind E, and the lifting-lever F and dog G. The leaf A is held in place upon the casing C and sill B by the screws *e e*, that pass through the flange *d* into the casing C, and by the studs or spurs *c c*, that enter suitable holes or recesses made in the upper surface of the sill B. In the center the leaf A is formed with the upwardly-projecting hinge pin or pintle *h*, on which the apertured extension *j* of the leaf D is hinged, and at its edges the said casting A is formed upon the upperside with the inclined ribs *f f'*, that are cut away to form the locking-notches *g g'*, with which the lips *k k'* of the leaf D are adapted to engage for locking the blind open or closed. The leaf D, besides being formed with the said apertured extension *j* and locking-lips *k k'*, is formed with the central slot, *l*, for receiving and permitting the operation of the lifting arm or dog G, and this casting D has formed in its upper surface the grooves or recesses *i i*, which are transverse to the slot *l* and form

bearings or seats for the fulcrum-pin *b* of the lever F and lifting-dog G. The lever F and dog G are rigidly secured to or cast with the fulcrum-pin *b*, and are oppositely arranged upon the pin, so that the outer or rear end of the lifting dog or arm G may have a bearing upon the main leaf A, while the lever F stands inside of the blind and projects upward and away from the dog G toward the free edge of the blind. The upper end of the blind will be hinged by an ordinary hook-and-eye hinge, the hook portion of which will be of considerable length to permit sufficient vertical movement of the blind for unlocking the lips *k k'* from the notches *g g'* without unhinging the blind.

In use, the blind being closed, the lip *k'* of the leaf D will drop over the notch *g'*, as shown in Fig. 2, and thus lock the blind in closed position. In order to unlock the blind for opening it, it is only necessary to lift slightly upon the lever F, which will act through dog G and fulcrum-pin *b* to lift the blind, and thus raise the lip *k'* above the notch *g'*, thus leaving the blind free to be swung open. In swinging the blind open the lip *k* will ride up the inclined rib *f* and drop over the notch *g*, and thus lock the blind in open position. In closing the blind the lever F will be again raised, which in like manner will lift the blind and unlock the lip *k* from the notch *g*, and thus leave the blind free to be shut, and in closing the lip *k'* will ride up the inclined rib *f'* and drop over the notch *g'*, and again lock the blind in closed position.

In Fig. 3 we have shown the leaf A made in the form of a complete semicircle, and formed in the center, near its outer curved edge, with the stop *k²*, with which the lips *k k'* may engage for locking the blind half open, or so as to stand at right angles to the wall of the building, if desired. In passing this projection in throwing the blind fully open and in closing the blind, the lever F must be operated to lift the blind the same as in the act of unlocking the blind from the notch *g* or *g'*.

Constructed in this manner it will be seen that the device is practical for its purpose, and that it is cheap, strong, durable, and easy to operate.

We do not abandon or dedicate to the public any patentable feature set forth herein and not hereinafter claimed, but reserve the right to claim the same either in a reissue of any
5 patent that may be granted upon this application or in other applications for Letters Patent that we may make.

Having thus described our invention, what
10 Patent, is—

1. In a combined hinge and fastener, the leaf D, formed with the extension *j*, lips *k k'*, and slotted, as shown at *l*, for receiving the dog G, substantially as described.
- 15 2. In a blind hinge and fastener, the leaf A, formed with the pintle *h*, spurs *c c*, upwardly-projecting plate *d*, and with the inclined ribs

ff', that are cut away to form locking-notches, substantially as described.

3. The combined hinge and fastener for
20 blinds, herein shown and described, consisting of the leaf A, formed with pintle *h*, inclined ribs *ff'*, that are cut away to form locking-notches, the leaf D, hinged upon pintle *h*, slotted
25 at *l*, and formed with locking-lips *k k'*, in combination with the lever F, lifting-dog G, and fulcrum-pin *b*, substantially as and for the purposes set forth.

WARREN SMALL DWINEL.
EARL PIERCE MASON.

Witnesses:

JOHN T. BLODGETT,
ROSWELL O. WHITNEY.