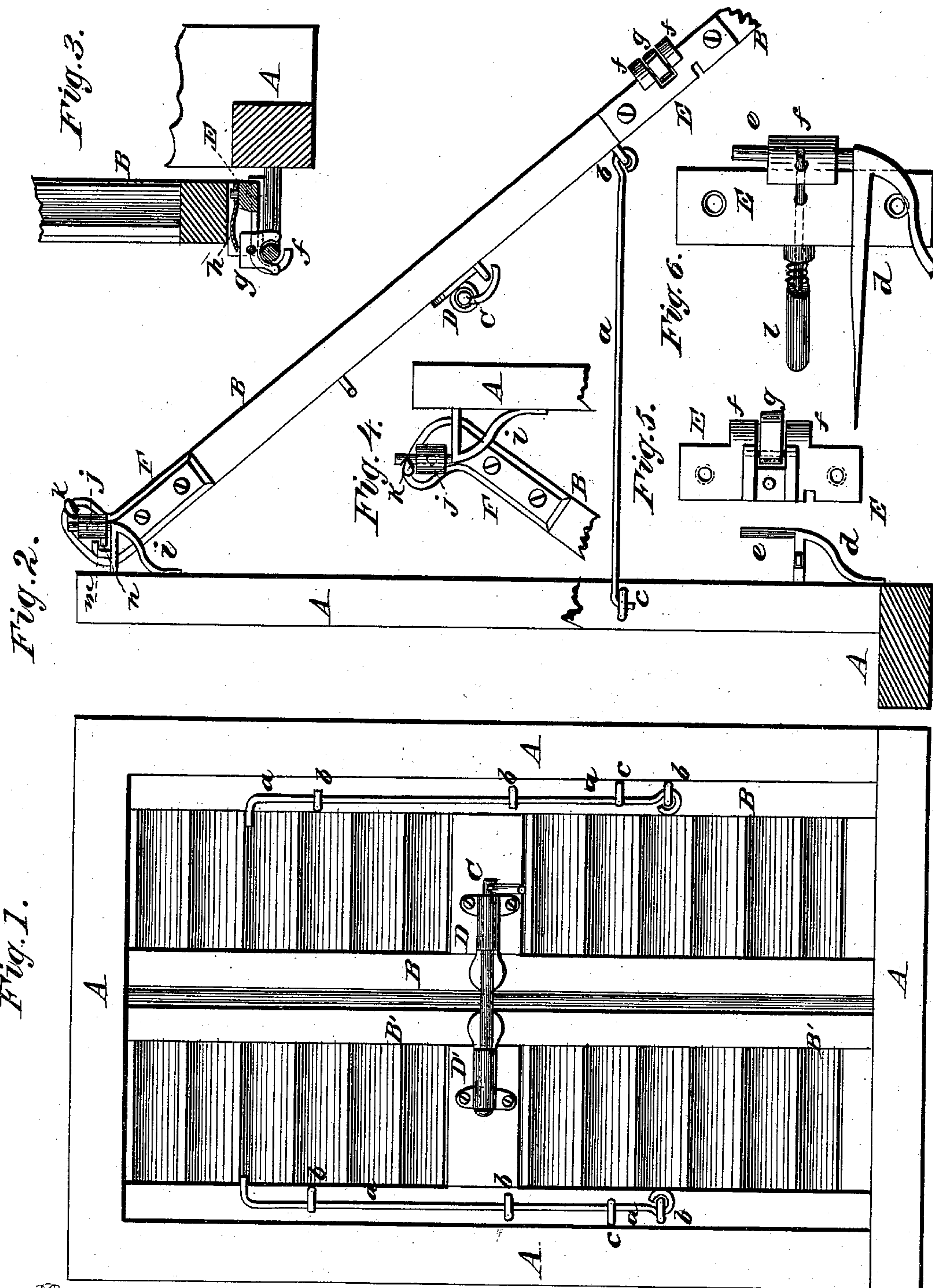


W. S. STOCKMAN.
Awning Blind Hinges.

No. 230,355.

Patented July 20, 1880.



Witnesses:

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WALTER S. STOCKMAN, OF BOSTON, MASSACHUSETTS.

AWNING-BLIND HINGE.

SPECIFICATION forming part of Letters Patent No. 230,355, dated July 20, 1880.

Application filed January 15, 1880.

To all whom it may concern:

Be it known that I, WALTER S. STOCKMAN, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Window-Shutters, (Case B;) and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

These improvements relate to that class of blinds which are used interchangeably as blinds or awnings; and they consist in the construction and arrangement of parts, as will be hereinafter more fully set forth.

In the annexed drawings, Figure 1 is an inside elevation. Fig. 2 is a side elevation of the device in use as an awning. Fig. 3 is a cross-section, showing a lower hinge. Fig. 4 is a side view of one of the upper hinges. Fig. 5 is an under view of the hinge, and Fig. 6 is a modification of one of the lower hinges.

In the drawings, A indicates the window-frame; B B', the window-blinds; C, the bolt; D D', the bolt-sockets; E, the leaf of the lower hinge; F, the leaf of the upper hinge; *a*, the hook-brace for holding the blinds in position when used as an awning; *b*, the hooks for holding the brace when not in use; *c*, the hook or loop on the window-frame for supporting the brace *a* when in use; *d*, the bracket for the lower hinge; *e*, the pintle of bracket; *f*, the ears on leaf E, for engaging with the pintle *e*; *g*, the pivoted locking-block; *h*, the spring; *i*, the bracket for the upper hinge; *j*, the ear or socket of upper leaf, F, and *k* the limit-pin or stop.

The casing A and blinds B B' are made in the usual manner and in any well-known form, and when made double, as shown, they are provided with the sockets D D' and bolt C, for locking them together when permanently closed and for use as an awning. The socket D is provided at its upper edge with a slit for the passage of the operating pin or knob of the bolt.

The braces *a* are, by preference, attached to the blinds, as shown; but it is evident that

they may be attached to the casing and be hooked into the blind and swung, as shown in Fig. 2.

The lower hinge is formed by the bracket *d*, which is provided with pintle *e*, and is fastened to the casing, which forms one half thereof. The other half or leaf, E, is fastened to the blind, and is provided with one or more ears, *f*, which are left open, so as to pass onto or off from the pintle *e* when the blinds are swung out for use as an awning. (See Fig. 3.) The leaf E is also provided with a block, *g*, having a concave face fitted to engage with the pintle *e*. This block is pivoted, as shown, at Fig. 3, and is provided with a spring to throw it into the position there shown and to permit of its turning so as to unlock the hinge when the lower end of the blind is pushed out, and to form a lock or stop to prevent the blind from becoming detached when swung upon the hinges as a blind. As this block *g* turns with the hinge it is evident that the leaf E can only be detached when the blind is swung from the top, or upon the upper hinges, for a slight turn prevents the block *g* from having a sufficient movement to allow the pintle *e* to pass out from the ears *f*.

The upper hinge is provided with a bracket, *i*, having a similar pintle to the bracket *d*, and a hook or catch, *m*.

The leaf F is attached to the blind, and is provided with a swivel socket or ear, *j*, and a pin, *k*, the pin being shown at Fig. 4, and, as shown, when the blind reaches the limit of its movement it engages with a notch in the pintle, which prevents the blind from being lifted by the wind when used as an awning.

It is evident that this limit-pin may be attached to the pintle and engage with a limit-notch on the leaf F.

The swivel-socket *j* is provided with a projection, *n*, which passes under the hook *m*, and prevents the blind from being lifted when closed.

If it is desired to lock the blind from the inside the pin *l* (shown in Fig. 6) is used, and is made to pass through the leaf E into the ear *f*, and when this form is used it is not necessary to use the block *g* with it, as in that form the blind can only be detached from the lower hinge by design.

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

1. The leaf *F*, having the swivel-socket *j* and
5 pin *k*, in combination with bracket *i*, having a notched pintle for preventing the wind from lifting the blind and limiting the movement, substantially as and for the purpose set forth.
2. The leaf *E*, having the ears *f* and spring-

block *g*, in combination with the bracket *d*, 10 having pintle *e*, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WALTER S. STOCKMAN.

Witnesses:

ALICE G. STOCKMAN,
FRANCES L. STOCKMAN.