(No Model.)

E. W. HASTINGS.

AWNING.

No. 289,532. Patented Dec. 4, 1883.

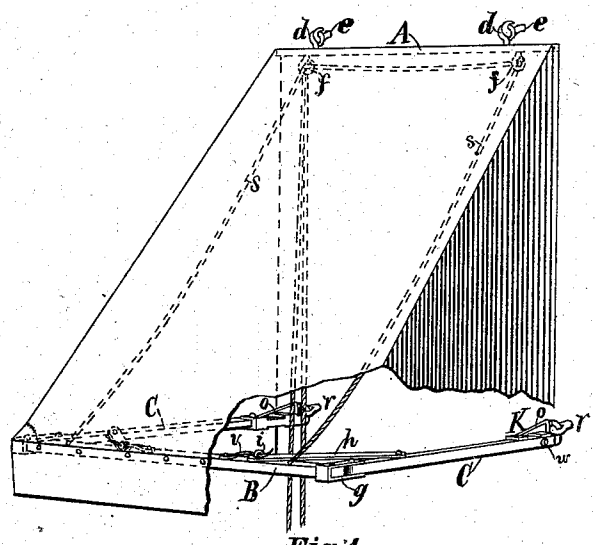


Fig. 1.

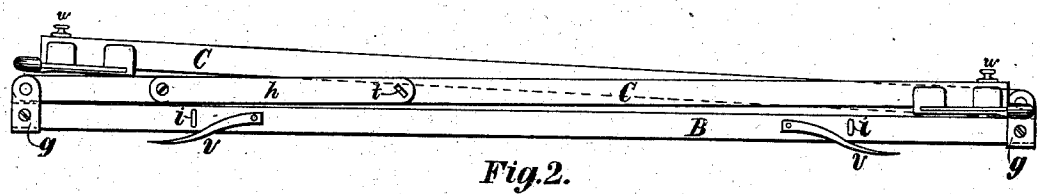


Fig. 2.

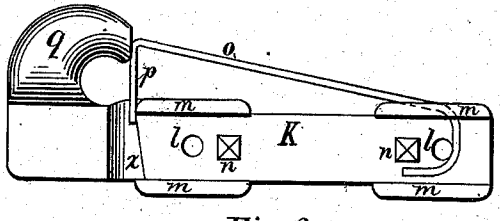


Fig. 3.

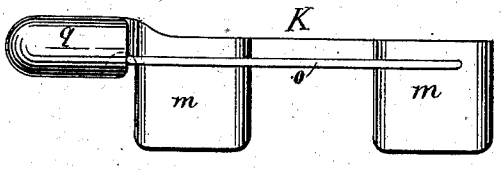


Fig. 4.

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UNITED STATES PATENT OFFICE.

E. WARREN HASTINGS, OF BOSTON, ASSIGNOR OF ONE-THIRD TO REUBEN J. BUTTERFIELD, OF CHELMSFORD, MASSACHUSETTS.

AWNING.

SPECIFICATION forming part of Letters Patent No. 289,532, dated December 4, 1883.

Application filed September 7, 1881. (No model.)

To all whom it may concern:

Be it known that I, E. WARREN HASTINGS, a citizen of the United States, residing at Boston, in the county of Suffolk and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Awnings, of which the following is a specification.

The object of my invention is such a construction of awning-frames as is not only cheap and durable, but admits of their ready attachment to and removal from window-frames or other supports by persons unskilled in mechanics, and allows the awning-frame, together with the awning-cloth, to be easily and compactly folded and rolled up when not in use, so that the awning may be stowed away in the least possible space, and may be convenient and economical for transportation. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the awning-frame with the awning extended, a portion of the cloth being cut away from one side of the same; Fig. 2, a top view of the lower members of the frame when closed, preparatory to packing away; Fig. 3, an enlarged lateral view of the spring-fasteners attached to the inner ends of the side pieces of the frame, and Fig. 4 an enlarged top view of said fasteners. Like letters refer to corresponding parts in the several views.

The upper part of the awning-frame consists of a simple strip of wood or other suitable material, A, with screw-eyes or staples *d d* secured in the top thereof, for hanging the same; also with similar screw-eyes or staples, *f f*, secured in the under side of said strip, for the cords *s s* to pass through, by which the awning is raised or lowered. When in use, the awning, with the frame to which it is attached, is held in place at the top by the hooks *e e*, passing through the screw-eyes *d d*, and set in the upper part of the window-frame, or other convenient portion of the building. The lower part of the awning-frame is composed of the front strip, B, and of the side strips, C C, of wood or other material of the requisite weight and firmness. The front and side strips are hinged together at the corners by such a hinge as will permit of their being folded together. A cheap and convenient hinge for this purpose consists of a simple plate of metal, *g*, Figs. 1 and 2, bent around and secured to the front strip, with the ends projecting in the rear, so as to receive the forward ends of the side strips and hold the same by means of a pin passing through them and fastened in said plate.

When the awning-frame is in use, the side strips, C C, are held at right angles with the front strip, B, by means of the diagonal braces *h*. Each of these braces consists of a bar or rod of metal, or other suitable material, and is fastened at one end to the adjacent side strip, so that it may be swung back thereon, in the manner shown in Fig. 2, and at the opposite end by any convenient attachment which will allow of its being connected and disconnected at pleasure. I prefer, usually, for this purpose a screw-eye or staple, *i*, set in the front strip, B, and passing through a slot or opening, *t*, in the brace, and being secured thereto by a leather thong, *v*, having its free end pushed through the screw-eye, over the brace, while the opposite end is permanently fastened to the front strip, B. The rear ends of the side strips, C, may be attached to the window-frame or other convenient portion of the building by means of the spring-fasteners K and screw-eyes or staples *r*, set in the frame or building, or by any other suitable device; but I prefer the spring-fasteners K, in combination with the screw-eyes, because they are easily connected or disconnected at pleasure, afford a secure attachment, and are cheap and durable.

The construction of the spring-fasteners is apparent from Figs. 3 and 4. They may be made of cast-iron or other metal, of a form suitable for attachment at the ends of the strips C, on their inner sides, and with the holes *l l* cast therein, for the insertion of screws or rivets to secure them to the strips. To give a firmer hold upon the strips and prevent their becoming loosened in wear, I prefer to have them provided with flanges *m m*, to overlap the strips, or with brads *n n*, to be pressed into the sides thereof, although the presence of these flanges or brads is not essential to the usually effective working of the fasteners. A

spring, *o*, which may be made of wire, is secured at the rear end in a sunken portion of the side of the fastener, and between it and the strip C, by the rivet or screw passing through this portion of the fastener. The opposite end, *p*, Fig. 3, of the spring is bent downward nearly at a right angle with the main body of the fastener, and passes through a small hole or nearly vertical slot, *x*, Fig. 3, on the inner side of the fastener. The natural position of the spring is shown in Fig. 3, where the end next the hook *q* of the fastener forms a stop or bar, which effectually prevents the hook from becoming detached from the screw-eye or staple, in which it is secured when the frame is in use, or from slipping back out of place. The spring, however, may be easily pressed down with the fingers, so as to allow the fastener to be unhooked when needful. Near the rear ends of the side strips, C, are the knobs *w*, Figs. 1 and 2, similar to carriage-knobs, to which the lower rear corners of the awning-cloth are secured by means of button-holes, the cloth about the button-holes being strengthened by re-enforcing patches. The lower edges of the cloth on the sides are usually unsecured elsewhere, except at the front ends, where the sides and face of the awning are sewed together; but additional knobs for buttoning down the sides may be used, if desired. This arrangement allows the sides to be wholly detached from the strips C of the frame, thus permitting the ready and compact folding of both cloth and frame, which, without such arrangement, cannot be folded in the same way as respects the cloth, nor as conveniently, closely, and smoothly.

What I claim, and desire to secure by Lettere Patent, is—

1. The lower part of an awning-frame, consisting of the strips C B C, hinged together at the outer corners, in combination with the diagonal braces *h h*, which are detachable, so as to permit of the adjacent members of the awning-frame being folded together, substantially as and for the purpose described.

2. The lower part of an awning-frame, composed of a front strip, B, and side strips, C C, said side strips being hinged to and adapted to fold against the front strip, and provided with suitable holding devices for the side flaps of the awning-cloth, substantially as described.

3. The lower part of an awning-frame, consisting of the side strips, C, hinged to the front strip, B, and provided with the knobs *w*, or their equivalents, for fastening down the sides of the awning-cloth, in combination with the detachable braces *h h*, substantially as and for the purpose described.

4. The spring-fasteners K, in connection with the inner ends of the side pieces of the awning-frame, substantially as described.

5. The awning-frame A B C C *h h*, constructed and operating substantially as described.

6. An awning having an awning-frame composed of a front strip, B, and side strips, C, said side strips being hinged to and adapted to fold against said front strip, and provided with holding devices for the side flaps of the awning-cloth, suitable means for attaching said awning-frame to a window-frame, and an awning-cloth composed of a main part and side flaps adapted to fold on the main part, said flaps being provided with means whereby they may be attached to the side strips of the said awning-frame, and readily detached therefrom for the folding and rolling of the awning, the entire structure being adapted to fold and roll compactly for storage and transportation, substantially as described.

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