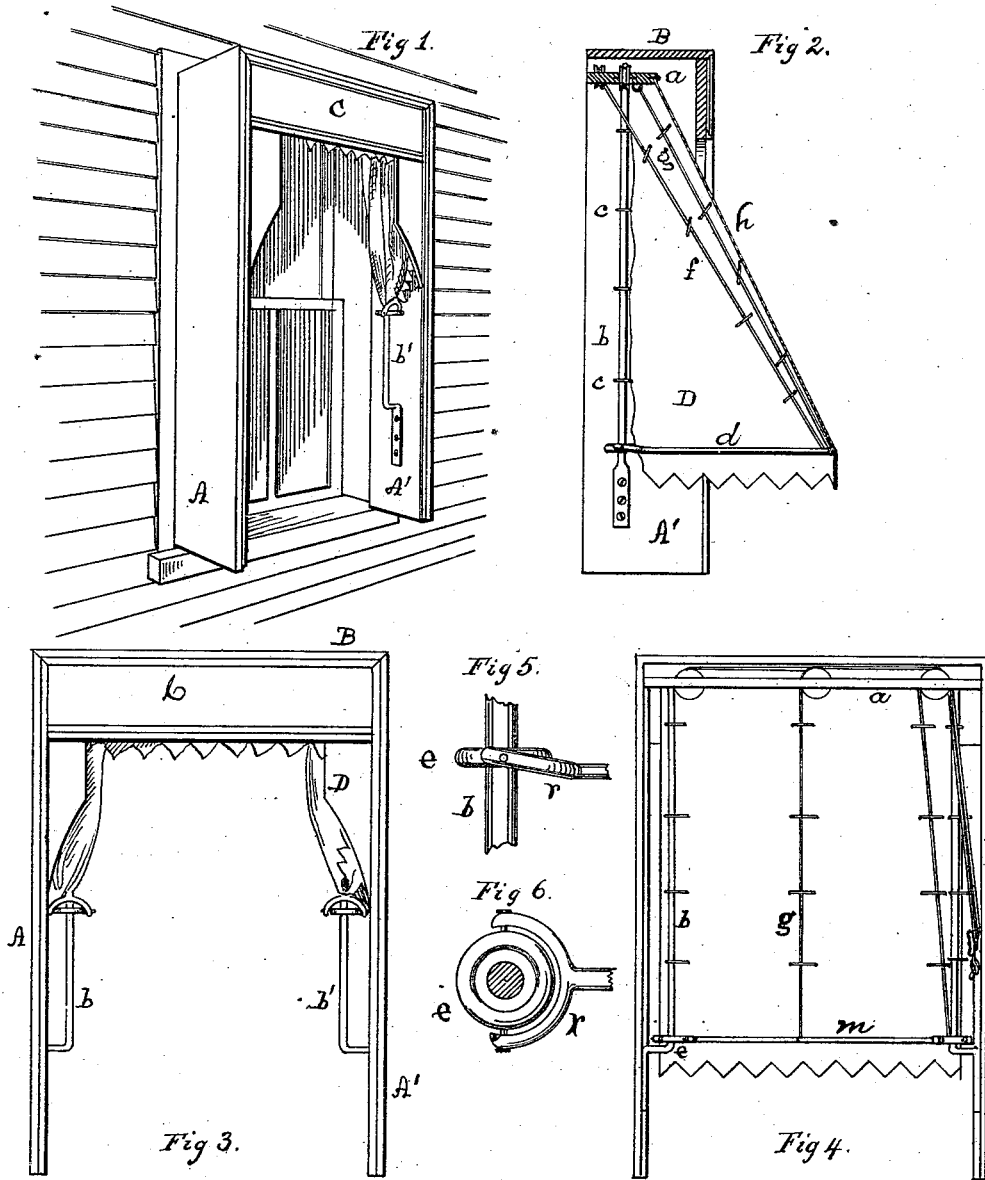


A. W. REDGRAVE.
Window-Awning.

No. 161,274.

Patented March 23, 1875.



Witnesses:
E. A. [Signature]
W. [Signature]

Inventor:
Alphonso W. Redgrave

UNITED STATES PATENT OFFICE.

ALPHONZO W. REDGRAVE, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO FREDERICK R. WILSON, OF SAME PLACE.

IMPROVEMENT IN WINDOW-AWNINGS.

Specification forming part of Letters Patent No. 161,274, dated March 23, 1875; application filed February 11, 1875.

To all whom it may concern:

Be it known that I, ALPHONZO W. REDGRAVE, of Chicago, Illinois, have invented new and useful Improvements in Awnings for Windows, of which the following is a full description, reference being had to the accompanying drawings.

Figure 1 is a perspective, Fig. 2 a vertical section, Fig. 3 a front view, Fig. 4 a rear view, Figs. 5 and 6 details, of the joint, enlarged.

This invention consists in providing a casing for the protection of awnings for windows, and in devices used for supporting and raising and lowering the awning.

In the drawings, A A' represent the sides, B the top, and C a piece at the front and upper ends of the side pieces of the casing, within which the awning is placed. *a* is a strip inside the casing, in which the pulleys are located. *b b'* are metal rods, the lower ends of which are secured to the side pieces A A', and their upper ends are supported in *a*. D is the cloth which forms the awning. At the top it is secured to the strip *a*. Its sides are loosely connected with the bars or rods *b b'* by means of rings *e*. The lower end, at front, is secured to the rod *m*, and the sides of the lower end are secured to the side rods *d*. The inner end of each of these rods *d* is provided with a fork, *r*, which is pivoted to a ring, *e*. The inner ends of these two rods should be bent up a little to secure the easy working of the joint when the awning is elevated. *f g h* are cords for raising and lowering the awning. They pass through rings attached to the cloth and over suitable pulleys. The center cord is quite important, as by it the center of the awning is gathered up snugly and held up within the casing. The casing is to be made from any suitable wood, and may be made plane or ornamental, and it is to be secured to the window-casing upon the outside by means of screws or otherwise.

As represented in Fig. 1, this casing extends down to the window-sill; but it may ter-

minate at any suitable point above the sill, and may have some ornamental shape at the lower end.

When drawn up within the casing, as shown in Figs. 1 and 3, the awning will be well protected by the casing from storms and winds, and the casing will at all times have an ornamental appearance. When not wanted the awning, or both awning and casing, can be removed.

The awning can be drawn up into the position shown in Fig. 3 by means of the cords *f g h*. The ring *e* will slide upon the rods *b b'*, and the side rods *d* will be brought into a perpendicular position.

The rod *m* and side rods *d* can be made from a single piece.

The joint-rings *e* encircle and can move up and down on the side rods *b b'*.

The construction of the parts is such that the awning can be raised to any desired height. The rods *d* can be brought to any desired angle, or can be brought into a perpendicular position simply, their lower or inner ends remaining at the bottoms of the rods *b b'*; or the awning, with the connections, can be drawn up a little farther, or brought into the position shown in Fig. 3.

When the parts are in the position shown in Fig. 3 I tie the cords together, and in raising the awning take hold of the cords at a point below the knot.

What I claim as new, and desire to secure by Letters Patent, is as follows:

1. The casing A A' B, with downward-projecting part C, in combination with the hinged and sliding rods *d* and awning D, substantially as and for the purpose set forth.
2. In an awning, the rods *d*, having a fork, *r*, and the rings *e*, in combination with the upright rods *b b'*, substantially as specified.

ALPHONZO W. REDGRAVE.

Witnesses:

E. A. WEST,
O. W. BOND.