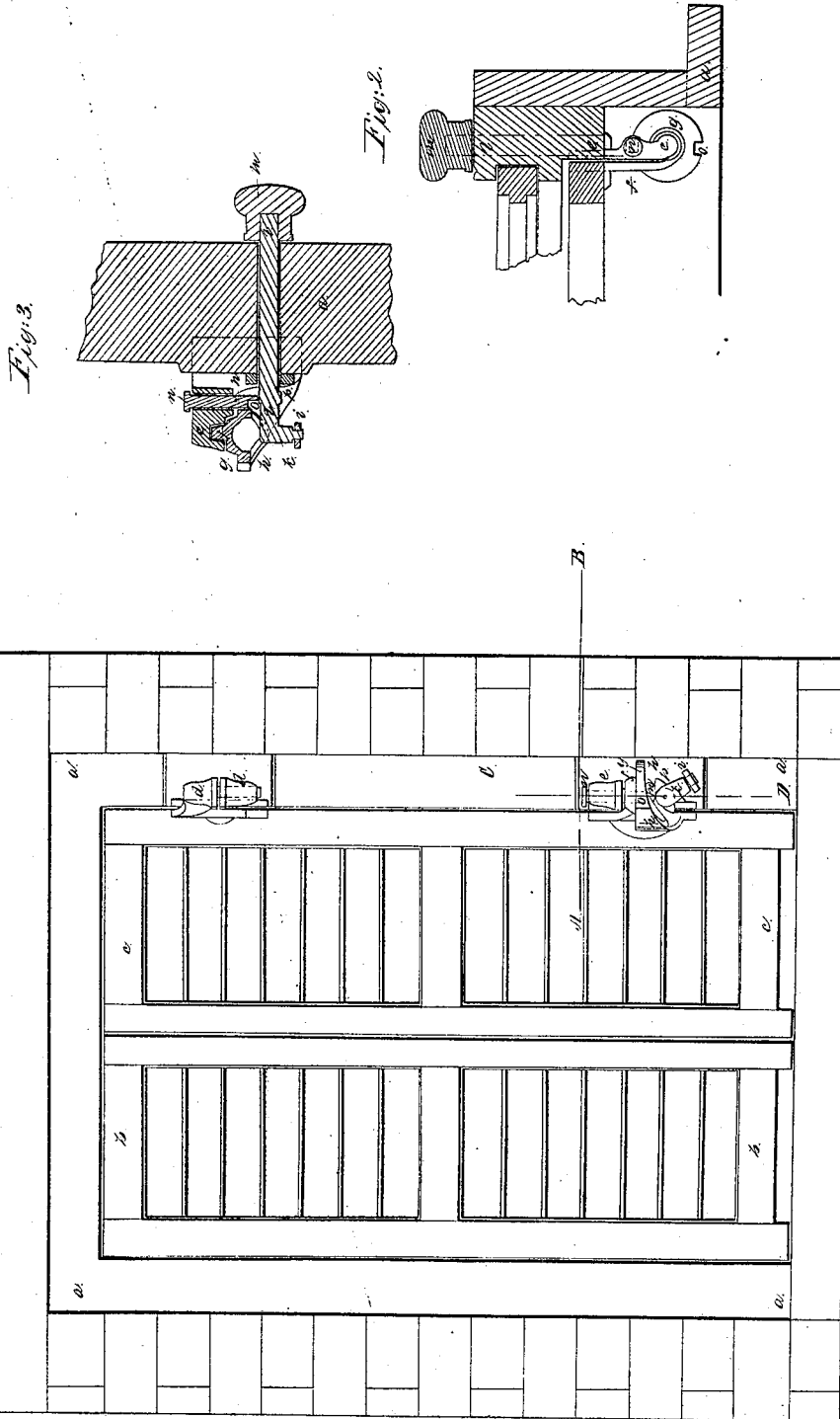


C. Reed,  
Shutter Worker.

N<sup>o</sup> 6,455.

Patented May 15, 1849.



# UNITED STATES PATENT OFFICE.

CHENEY REED, OF CAMBRIDGE, MASSACHUSETTS.

## METHOD OF MOVING AND FASTENING WINDOW-BLINDS.

Specification of Letters Patent No. 6,455, dated May 15, 1849.

*To all whom it may concern:*

Be it known that I, CHENEY REED, of Cambridge, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in the Mode of Hanging and Fastening Blinds, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from others of the same class, together with such parts as I claim and desire to have secured to me by Letters Patent.

The figures of the accompanying plate of drawings represent my improvements.

Figure 1 is an elevation of the exterior of a window frame, with blinds hung thereon according to my improved mode. Fig. 2 is a detail sectional view taken horizontally in the plane of the line A B, Fig. 1, and Fig. 3 is a similar view taken vertically in the plane of the line, C D, Fig. 1.

My improvements are made upon a mechanical arrangement for hanging, and fastening blinds, patented by me in the year 1848; the distinguishing features of which were a tilting or reversible circular inclined plane set between the two halves of each of the lower hinges of the blinds, the upper halves of said hinges being provided with a friction roller which works on said plane, and the turning rod on the end of which said plane is fixed, extending to the interior of the apartment, so that the blinds may be opened, and closed without raising the window sash. In such an arrangement the weight of the blind, aided by a spring bearing on the top of the upper halves of the said lower hinges, had to overcome any resistance of the wind etc. to the opening or closing of said blinds.

By my present improvements the whole power of the arm may be made available in operating on the blinds; the friction roller being fixed to the end of a right angular arm of the turning rod aforesaid, and being made to bear or press against a curved inclined plane or cam, formed on the under side of the lower halves of the lower hinges.

*a a a*, Fig. 1, is the window frame constructed in the usual manner.

*b b—c c*, are the two window blinds, the former being represented as permanently closed, and without hinges, and the latter being hung on my improved plan. The upper hinge, *d d*, mainly sustains the weight of the blind, and is constructed in the common way, but stronger, the upper half being formed in the shape of a cap to exclude the rain, as shown in Fig. 1, and being attached to the blind while the lower half is attached to the window frame.

The upper half, *e*, of the lower hinge, *e f*, is formed in the shape of a cap, and attached to the window. The lower part, *f*, is attached to the blind, and has cast with it the circular metallic piece, *g*, the underside of which is formed with the inclined plane or cam extending about half way around the underside of said piece, as shown at *h h*, Figs. 1 and 3. The pressing or bearing roller, *i*, is fitted on the end of the right angular arm, *k*, of the turning rod, *l l*; said rod passing through the window frame into the interior of the apartment, and having a handle, *m*, on its end by which it is operated.

By pressing the roller, *i*, against the lowest part of the inclined plane or cam, *h h*, it will cause the blind, when it is shut, to swing open, and then by turning the said roller round (through the medium of the rod, *l l*) one hundred and eighty degrees, the said cam will be in position to throw the blind toward the sash again. In order to avoid the necessity of turning the roller around so far, it will be evident that a reversed cam or inclined plane may be placed just below that before described, leaving sufficient space between the two for the play of the roller; but this will be a mere modification of the main feature of my improvements, which will be apparent to any skillful mechanic.

The blinds when in an opened or closed position, may be fastened by means of the vertical sliding bolt, *n n*, Figs. 1, 2 and 3, which works up and down in a proper slot in the upper half, *e*, of the lower hinge, and drops into proper notches, *o, o*, formed opposite each other in the metallic piece, *g*. This bolt is thrown out of connection with the notches aforesaid by the cam, *p*, Fig. 1,

fixed on the turning rod, *l l*, on the top of which cam the foot of said bolt rests.

Having thus described my improvements in the mode of hanging blinds so that they  
5 may be opened from the interior of the apartment without raising the sash, I shall state my claims as follows.

What I claim as my invention, and desire to have secured to me by Letters Patent is,—  
10 The combination of a turning pressing or bearing roller, with an inclined plane or cam

formed on that portion of the lower hinge which is attached to the blind, substantially as hereinabove set forth.

In testimony that the foregoing is a true  
15 description of my said invention and improvements I have hereto set my signature this Fourth day of April in the year 1849.

CHENEY REED.

Witnesses:

EZRA LINCOLN, JR.,  
LUTHER BRIGGS, JR.