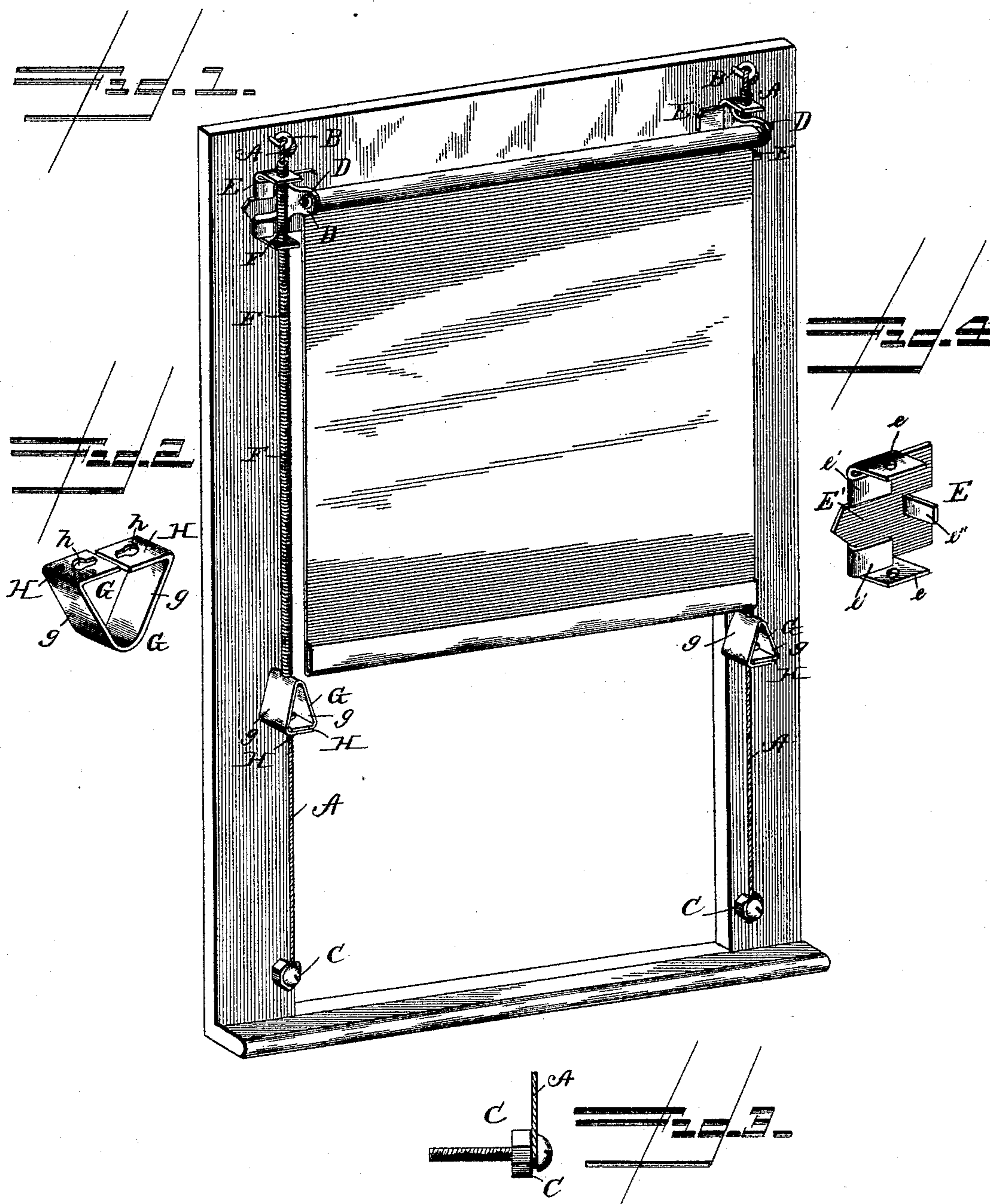


(No Model.)

J. MURRAY.  
WINDOW BLIND ADJUSTING DEVICE.

No. 497,810.

Patented May 23, 1893.



Witnesses

E. N. Stewart.

Inventor

James Murray.

By *his* Attorneys,

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

JAMES MURRAY, OF HILLSBOROUGH, OHIO.

## WINDOW-BLIND-ADJUSTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 497,810, dated May 23, 1893.

Application filed July 6, 1892. Serial No. 439,137. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES MURRAY, a citizen of the United States, residing at Hillsborough, in the county of Highland and State of Ohio, have invented a new and useful Window-Blind-Adjusting Device, of which the following is a specification.

My invention relates to a window-blind adjusting device, designed to enable the blind roller to be raised and lowered at will to cover any desired portion of the window, the same being fully described hereinafter in connection with the drawings, wherein—

Figure 1 is a perspective view showing the invention in its operative position. Fig. 2 is a detail view of the clamp for maintaining the parts in their adjusted positions. Fig. 3 is a similar view of the retaining device for the lower end of the slide-rod. Fig. 4 is a detail view of the pocket for holding the bracket.

The guide rod or wire A is secured at its upper end to a screw-eye B, and at its lower end by a binding-screw C, preferably as shown in the drawings.

Upon the guide-rod is mounted the roller bracket D, the latter being carried by a pocket E which slides on the rod. The pocket is supported upon the upper end of a slide tube F which fits upon the rod, the length of said tube being such as to enable the operator when standing upon the floor to raise the bracket to the top of the window, or to the upper end of the rod.

A clamp G is employed to lock the tube and the bracket at any desired elevation, the same consisting of a flat spring bent to an angular form, the divergent arms *g g* thereof being turned inward at their extremities to form ears H H, which lie close together in parallel planes and are provided with longitudinal slots *h h*, tapered toward their outer ends, through which the guide-rod extends. The tendency of the spring is to separate the lower extremities of the arms and thereby bite the rod between the tapered outer ends of the slots in the ears. When it is desired to raise or lower the roller, the lower ends of the divergent arms of the clamps are pressed toward each other, thus disengaging the rod. When the clamps are released they automati-

cally clamp the rod and lock the parts in the desired position.

By means of the above described construction the curtain or blind may be arranged to cover either the upper or the lower portion of the window, the adjustment being accomplished by simply disengaging the clamps and raising or lowering the brackets to the desired positions.

The slide-tubes which I prefer to use in connection with my invention, and which I have found to be the most economical, are of fine brass or steel wire coils: tubes of this material are strong, durable, and inexpensive. The pockets E in which the brackets are secured consist of a base-plate E', perpendicular eyes *e e*, through which passes the rod or wire A, the inner ears *e' e'* to engage the base of the bracket, and the outer ear *e''* to engage the rear side of the bracket. By the use of this pocket the ordinary brackets now in use, such as those shown in the drawings, may be utilized.

The guide-rods which I preferably employ in connection with my invention are formed of plaited or twisted wires, thus giving a more permanent and positive hold for the clamps. Plain wires may be used.

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

1. In combination with vertical guide-rods, the roller brackets supported on the guide-rods, the V-shaped spring clasps, having their terminals provided with inturned parallel slotted ears, and connections between the brackets and clasps, substantially as specified.

2. In combination with guide-rods and shade-supporting brackets, the clasps G having arms *g g*, and ears H H provided with slots *h h*, and connections between the brackets and clasps, substantially as specified.

3. In combination with guide-rods, brackets supported thereby, and spring clasps to engage said rods, the slide tubes inclosing said rods and comprising tubular coils, connected at opposite ends to the brackets and clasps, substantially as specified.

4. In combination with guide-rods, the brackets to support the shade-roller, pockets

to hold said brackets and comprising a plate E', intumed ears  $e' e'$ , eyes  $e$  to engage the guide-rods and outer ear  $e''$ , and means to lock the pockets upon the guide-rods, substantially as specified.

5 In combination with fastening devices B and C, the guide-rods consisting of plaited or twisted wire, the sliding pockets carrying roller brackets, the coiled wire tubes, and the  
10 spring clamps, having divergent arms pro-

vided with intumed, parallel, slotted ears, substantially as specified.

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

JAMES MURRAY.

Witnesses:

D. LEADBETTER,  
W. T. GREUBER.