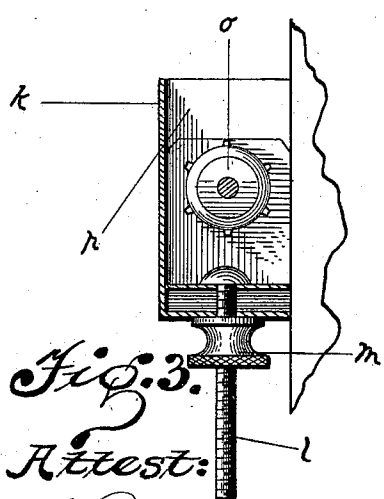
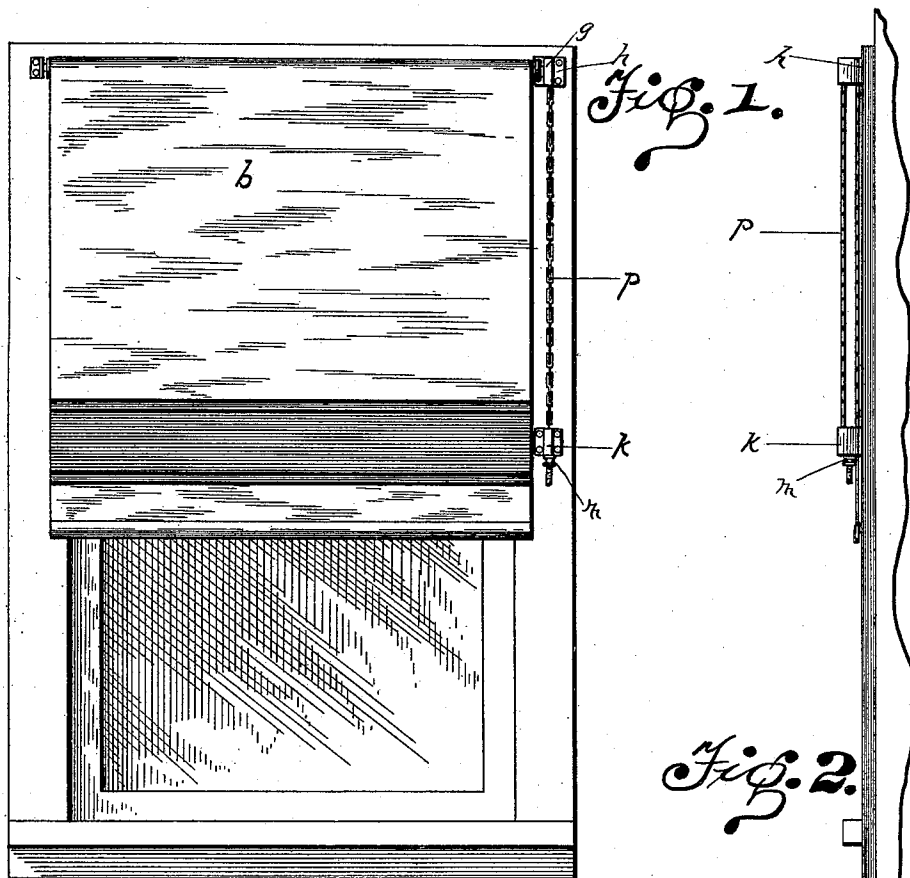


(No Model.)

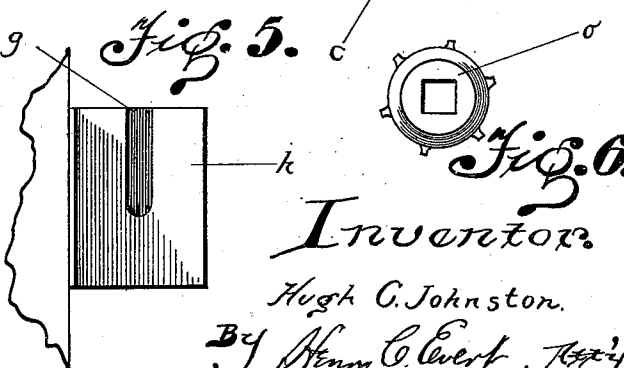
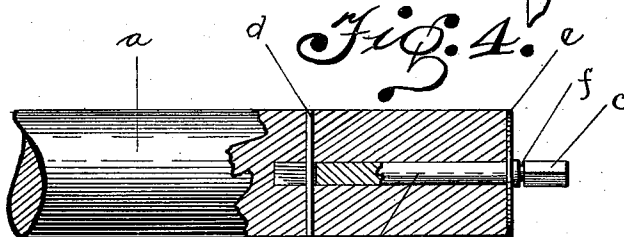
H. C. JOHNSTON.
ROLLER AND BLIND ATTACHMENT.

No. 574,152.

Patented Dec. 29, 1896.



Attest:
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Inventor.
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By Henry C. Evert Atty.

UNITED STATES PATENT OFFICE.

HUGH C. JOHNSTON, OF FREEDOM, PENNSYLVANIA.

ROLLER AND BLIND ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 574,152, dated December 29, 1896.

Application filed August 7, 1896. Serial No. 602,108. (No model.)

To all whom it may concern:

Be it known that I, HUGH C. JOHNSTON, a citizen of the United States of America, residing at Freedom, in the county of Beaver and State of Pennsylvania, have invented certain new and useful Improvements in Roller and Blind Attachments, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in roller and blind attachments for windows, and has for its object to provide a means whereby the blind may be easily and conveniently operated and adjusted to any height and retained there without the aid of springs to hold the pole in the desired position after the blind has been wound on same.

20 The invention further aims to construct a blind and roller attachment that can be readily attached to the ordinary blind and when placed in position on the window will present a handsome and ornamental appearance; furthermore, a device which will permit of the operation of the blind without touching the same, which will serve to prevent the blind from becoming soiled by contact with the fingers.

30 A still further object of my invention is to provide a roller and blind attachment that will not interfere in any manner with the curtains that may be hung over the window, but will permit of the same being draped in any manner desired and as might be the case were my improved attachment not on the window.

35 A still further object of the invention is to construct a blind and roller attachment that can be readily detached from the window and a new blind substituted and the same attachment replaced on the frame; furthermore, an attachment that will be extremely simple in its construction, strong, durable, effectual in its operation, and comparatively inexpensive to manufacture.

45 With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more specifically described, and particularly pointed out in the claim.

50 In describing the invention in detail reference is had to the accompanying drawings,

forming a part of this specification, and wherein like letters of reference indicate similar parts throughout the several views, in which— 55

Figure 1 is a front elevation of a window with my attachment applied in position. Fig. 2 is a side view of the same. Fig. 3 is a side view of the lower pulley-wheel and adjustment, showing the casing for same in section. 60 Fig. 4 is a side view of a portion of the pole, partly in section, to show the supporting-axle and manner of securing same in the pole. Fig. 5 is a side view of the upper casing, and Fig. 6 is a side view of one of the pulley-wheels. 65

In the drawings, *a* represents the pole, which is of the ordinary pattern, and to which the blind *b* is attached in any suitable manner. This pole is supported at the left-hand end by means of a pin in the same engaging 70 in a bracket attached to the frame, which is the old and well-known construction. In the right-hand end of the pole is inserted a pin or rod *c*, forming the axle, said pin or rod being split at its inner end, so as to engage a pin *d*, inserted transversely through the pole, thus serving to fasten the rod *c* firmly in the pole and preventing same turning should it work loose. This rod *c* is provided also with a plate *e*, which is adapted to be fastened to 80 the end of the pole, the outer end *c'* of the rod being formed in a square or other suitable shape to engage in the upper pulley-wheel, and between this square end and the plate *e* the rod is grooved, as shown at *f*, to engage 85 in the slot *g* of the upper casing *h*, attached near the top of the frame. About the center of the window-frame, at the same side, is attached a similar casing *k*, provided with a closed lower end, through which is the adjusting-bolt *l*, provided with a thumb-nut *m*. 90 This adjusting-bolt is attached to an inner casing *n*, carrying a pulley-wheel *o*, which is provided with projections around its outer periphery to prevent the chain from slipping 95 off. This chain *p*, which is an endless one, passes over this pulley *o* and over a similar pulley *q*, secured on the end *c'* of the rod *c* within the upper casing *h*. Thus it will be seen that the upper pulley-wheel is rigid on 100 its axle, while the lower pulley turns on its axle within the casing.

The operation of my improved roller and blind attachment will be readily apparent

from the views of the same that I have shown in the drawings, but in order to illustrate the same more clearly I will assume that the parts have all been secured in their respective positions and the operator desires to lower the blind, which I will assume is at the top of the window. The operator grasps the chain and by pulling on same causes the pole to turn, and thus unwind the blind, the operation to rewind being the reverse of that just described.

By this construction of a blind and roller attachment it will be observed that when once placed in position the same may be allowed to remain and a new blind substituted whenever desired, as there are no delicate parts to become broken or get out of order, and when the chain becomes too slack or too taut the same can be readily and easily regulated by means of the adjustment attached to the lower pulley-wheel. It will also be found that when the blind has been adjusted to a certain position the same will remain there until the chain is again operated, with no danger of same slipping its catch and flying to the top of the frame, as is the case with the spring attachment ordinarily employed. It will also be observed that the same can be operated by any one, whether understanding the operation of the same or

not, as it will not matter which way the chain is operated the blind will return to its former position if the operator continues to propel the same by means of the chain.

I also desire to call attention to the fact that the attachment can be applied to any-sized window, working on one equally as well as on another, and it will also be observed that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

In combination, a pole supported at one end by a bracket, a rod secured in the opposite end having a square shank and an annular groove, a casing having a slot to receive the grooved end, a pulley on the shank, a chain engaging the pulley, a casing arranged to the side of the window, a slide supporting a pulley over which the chain operates, and a screw for adjusting the slide, as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

HUGH C. JOHNSTON.

Witnesses:

A. M. WILSON,

H. E. SEIBERT.