

No. 684,009.

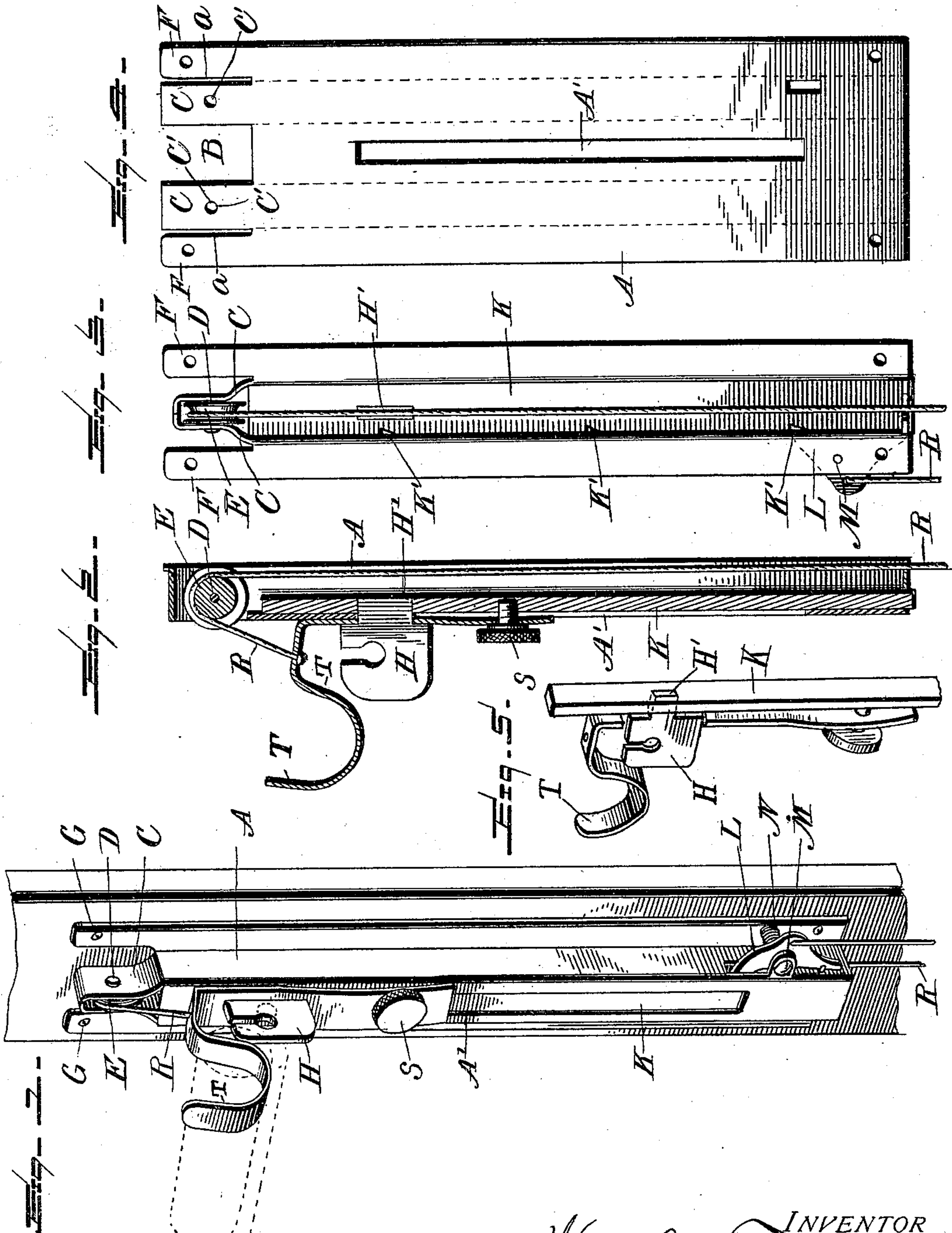
Patented Oct. 8, 1901.

W. A. TEW.

VERTICALLY ADJUSTABLE SHADE HANGER.

(Application filed Mar. 16, 1901.)

(No Model.)



WITNESSES:
J. F. Doyle
A. E. Hough

INVENTOR
Wm. A. Tew,
BY Franklin H. Hough
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM A. TEW, OF BOWLING GREEN, OHIO.

VERTICALLY-ADJUSTABLE SHADE-HANGER.

SPECIFICATION forming part of Letters Patent No. 684,009, dated October 8, 1901.

Application filed March 16, 1901. Serial No. 51,516. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. TEW, a citizen of the United States, residing at Bowling Green, in the county of Wood and State of Ohio, have invented certain new and useful Improvements in Vertically-Adjustable Shade-Hangers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in vertically-adjustable shade-hangers designed especially to raise and lower the shade for the purpose of ventilation; and it consists of slotted socket-plates designed to be secured to the window-frame adjacent to the sash of the window and provided with a shade-carrying hanger secured to a ratchet-plate longitudinally movable within the socket-plates, and a spring-actuated pawl adapted to hold the shade-carrying plates at different heights, means being provided to raise the shade-hanger, and the latter designed to fall by gravity when the pawl is disengaged from the ratchet-teeth in the edge of the longitudinally-movable plate.

Another feature of the present invention resides in the provision, in combination with the socket member and the longitudinally-movable hanger-carrying plate, of an adjusting-screw whereby the socket member and hanger-carrying plate may be held in frictional contact with each other for the purpose of partially breaking the force of the hanger in cases where the shade-roller is heavier than usual.

My invention will be hereinafter more fully described and then specifically defined in the appended claims and is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings—

Figure 1 is a perspective view showing my improved adjustable shade-hanger as applied to the frame of a window. Fig. 2 is a vertical sectional view through the socket member and the ratchet-plate. Fig. 3 is a

rear elevation, and Fig. 4 is a detail view, of the socket-member blank before being bent to form a socket to receive the hanger-plate. Fig. 5 is a detail view showing the bracket-arm and lug brazed thereto.

Reference now being had to the details of the drawings by letter, A designates a socket-plate, made of any suitable material and of a single blank which is longitudinally slotted, as at A', said slot terminating a short distance from the ends of said member and the ends of the slots serving as stops to limit the upper and lower throw of the hanger. This socket member is bracket-shaped in cross-section, and in its flanged longitudinal edges screws may be passed through the metal, whereby the device may be attached to the frame of a window. The upper end of said member A is slitted, as at a, a short distance in from one end of the member, and intermediate the inner two arms formed by said slitting is a recess B. The inner edges of the arms C C on either side of said recess form the side walls of the recess and are apertured, as at C', to receive the pin D, on which the pulley E is journaled. The upper ends of the arms C are preferably bent inward and in close contact, forming a shield over said pulley. The arms F F, which are integral with the member A, are apertured to receive screws G.

The bracket-arm H for supporting the shade-roller has a lug H' secured thereto by brazing or otherwise, which passes through the longitudinal slot in the socket member, and after passing through an aperture in the pole-supporting bracket T is securely fastened to the sliding or longitudinally-movable plate K, which is located within the socket member. This plate K has notches K' along one of its edges at intervals apart, said notches being adapted to be engaged by the nose of the pawl L, which is pivoted on a pin M, carried in a lug on the socket member. The nose of this pawl passes through an aperture in the wall of the socket member and is disposed in the path of the notches in the edge of the longitudinally-movable plate K to hold the latter at different heights. A spring N is mounted on said pin M and has one end secured to the pawl, while its other end rests against the socket member, said

spring serving to normally hold the pawl in the path of said notches. A string R has one end secured to the pawl L near its edge and extending downward to convenient reach of the operator, who by pulling down on the string releases the pawl from the engaging notch in the longitudinally-movable plate within the socket member and allows said plate, with the shade-roller and also the curtain-pole bracket T, to drop. The string is passed up through the socket member over the pulley at the top, and its other end is fastened to the pole-supporting bracket T, and by pulling down on the portion of the string which passes through the socket member the bracket-carrying plate may be raised to its highest position.

In order to break the force of the dropping shade-roller, I provide a screw S, which passes loosely through an aperture in the downwardly-projecting end of the bracket-arm, which projecting portion is sprung outwardly from the socket member. This screw then engages in a threaded aperture in the plate K, and by turning the screw toward the socket member the lower end of the bracket is drawn toward the plate K and the two caused to bear frictionally against the opposite faces of the socket member, thus serving to make the dropping of the shade-roller and its attachments gradual.

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

1. A vertically-adjustable shade-hanger consisting in combination with the socket member and pawl and plate engaged thereby, a bracket-arm and lug carried by the latter, and passing through a slot in said socket member and secured to said plate, a screw passing loosely through the lower end of said bracket-arm, and engaging in a threaded aperture in said plate, and means for raising the bracket-arm, as set forth.

2. A bracket-retaining socket member, consisting of a plate of metal having its ends slitted forming arms, a recess intervening between the inner of said arms, the latter designed to form supports for a pulley-carrying pin, when bent at right angles to the flanges of said socket-plate, combined with the bracket-arm and plate secured thereto, a lug secured to said bracket-arm and working in an elongated slot in said socket-plate, as set forth.

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

WILLIAM A. TEW.

Witnesses:

A. L. HOUGH,
J. M. PFEIFFER.