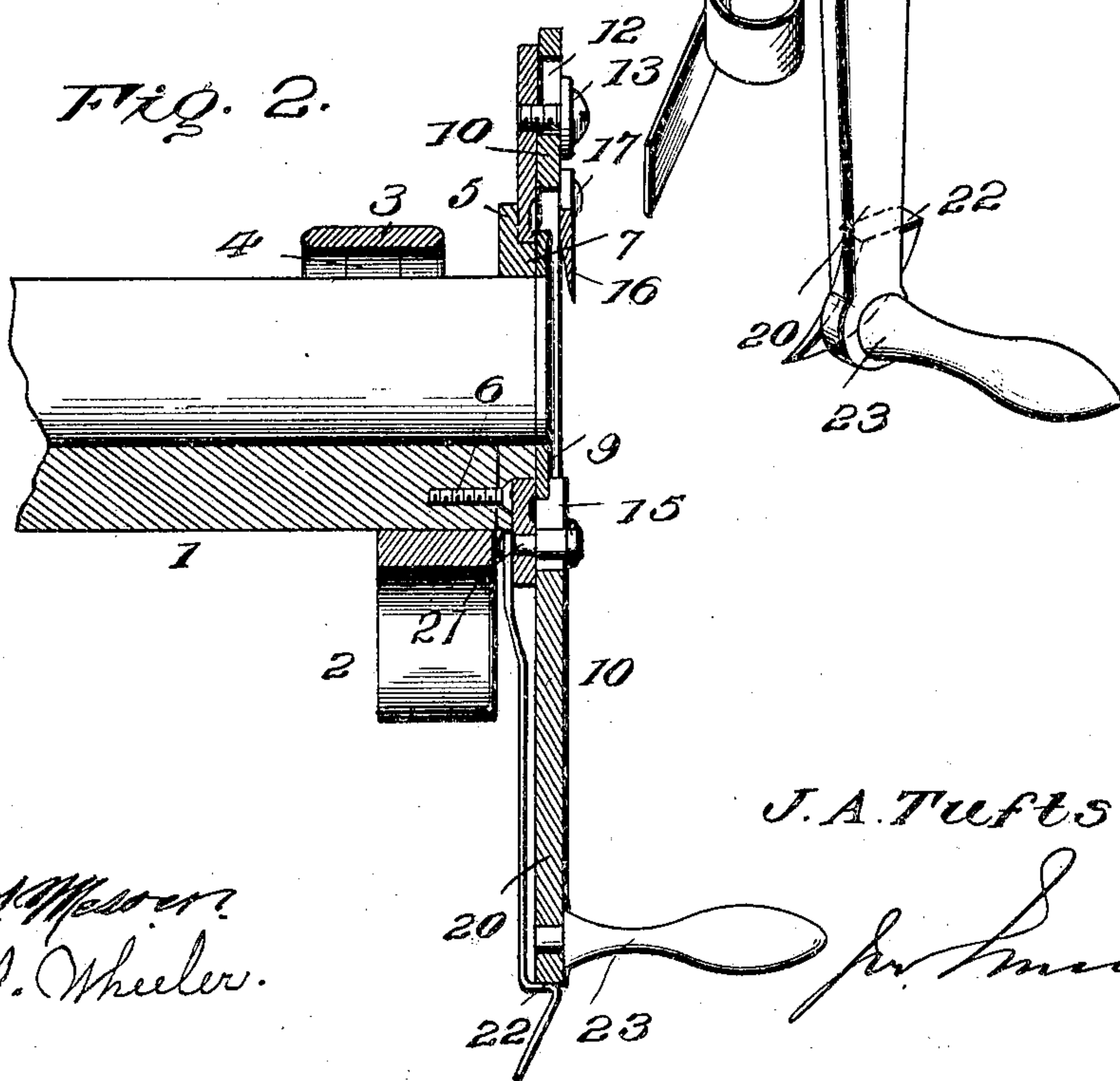
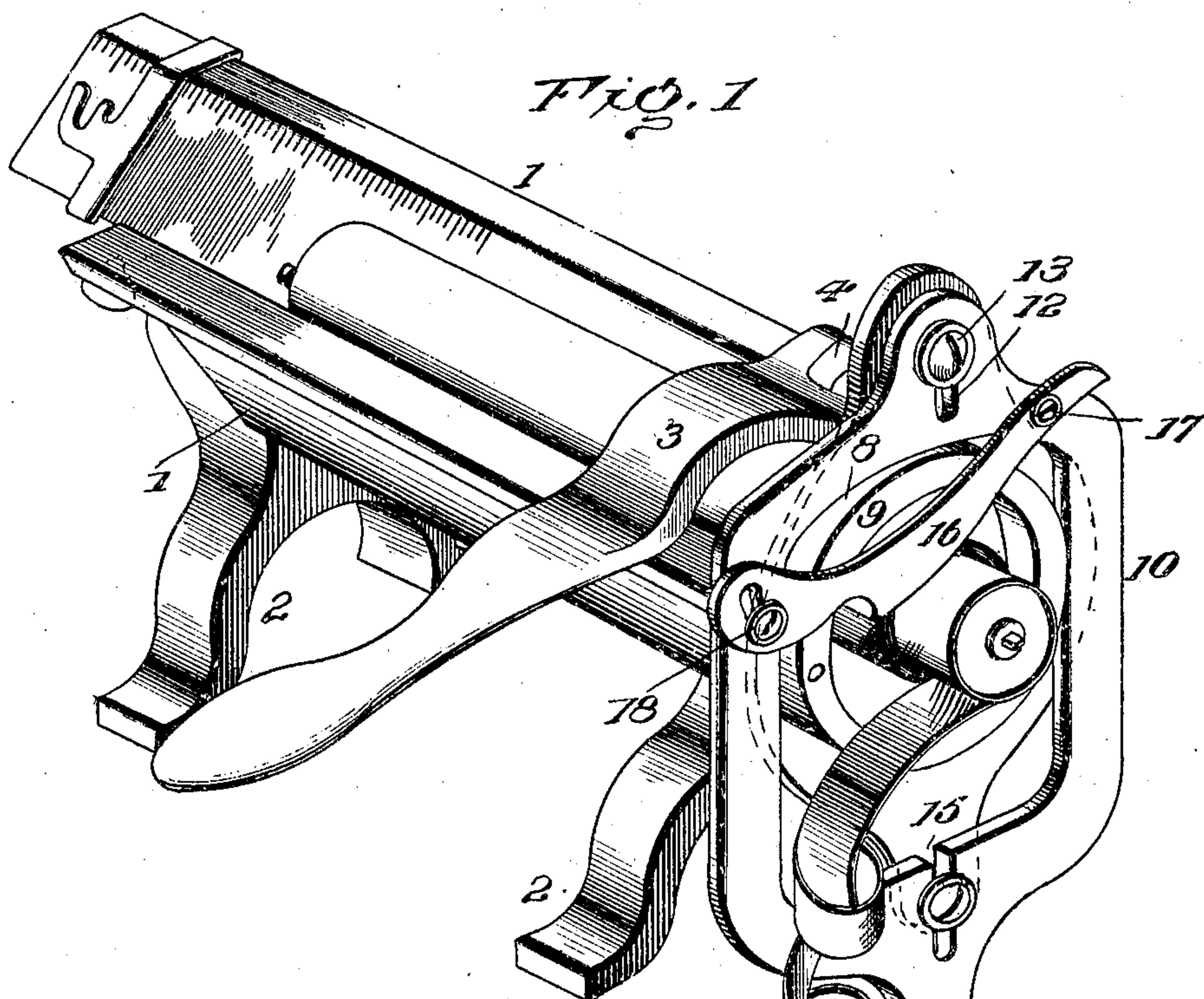


No. 770,131.

PATENTED SEPT. 13, 1904.

J. A. TUFTS.
SHADE TRIMMING DEVICE.
APPLICATION FILED NOV. 4, 1903.

NO MODEL.



Witnesses
Simon J. Mawer
John N. Wheeler

Inventor
J. A. Tufts
Attorney

UNITED STATES PATENT OFFICE.

JAMES A. TUFTS, OF ABILENE, KANSAS.

SHADE-TRIMMING DEVICE.

SPECIFICATION forming part of Letters Patent No. 770,131, dated September 13, 1904.

Application filed November 4, 1903. Serial No. 179,817. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. TUFTS, a citizen of the United States, residing at Abilene, in the county of Dickinson and State of Kansas, have
5 invented new and useful Improvements in Shade-Trimming Devices, of which the following is a specification.

This invention relates to a curtain-trimming apparatus and is an improvement of the construction shown in my Patent No. 736,317,
10 bearing date of August 11, 1903.

The object of the invention is to overcome slight difficulties due to the construction of certain parts. To this end I have improved
15 the knife-carrying member that it may be more conveniently attached and detached and have made the knife adjustable and provided a spring for holding the knife up and out of the way when the apparatus is not in use. These
20 details of construction will be specifically described in the specification and emphasized in the claims.

In the drawings, Figure 1 is a perspective view of my improved window-shade-trimming
25 apparatus. Fig. 2 is a vertical section of the same.

1 represents a V-shaped trough or seat to receive the curtain, and 2 the supporting-legs therefor. A lever 3 is pivoted to a lug 4 on
30 the trough and is adapted to hold the curtain in proper position while it is being trimmed.

A ring-like casting 5 is fastened at 6 to the face of the trough 1, and projecting from this casting is a flange 7, on which the revolving
35 supporting member 8 is mounted, said member being held in proper position by a ring 9. As in my former patent, the member 8 supports the knife-carrying member 10, the latter in this instance being in the form of a yoke-
40 which I find is more durable than the structure heretofore employed by me. Further, more, this arrangement permits me to apply a fastening to each end of the knife, which insures its rigidity when trimming a curtain.

45 A closed slot 12 is formed at the upper end of the knife-carrier member 10, through which and into the member 8 passes a headed bolt 13, while in the lower portion of the yoke is an open slot 15. A pin projecting from the
50 member 8 enters the slot 15, which, together

with the upper slot, allows of the knife being moved laterally to and from the curtain.

The knife 16 is pivoted to the yoke at 17 and is fastened at the opposite side of the said yoke by a headed pin 18, which passes through
55 a slot struck from the pivotal point 17.

When it is desired to remove the knife-carrying member from the apparatus, it is only necessary to remove the screw 13 and drop it
60 down slightly, and in the adjustment of the knife the screw 18 is released and the knife may be moved to the desired position and the said screw again tightened and the apparatus is ready to be operated. This construction
65 obviates the necessity of wholly removing the knife, as heretofore, when it has become slightly worn and adds very materially to the practical operation of my invention.

I have found that when the apparatus is not in use the knife will of its own weight, together with that of its carrier, drop across the
70 front of the trough, and when a curtain is thrust therein the knife becomes disfigured and abused. However, I overcome this difficulty by providing a spring-actuated device
75 20, which is fastened to the member 8 at 21, and it has formed at its lower end a shelf 22, adapted to catch under the extension 23 of the knife-carrying member. As shown in Fig. 2,
80 it will be seen that when the knife-carrier is supported as described the knife is elevated above the alinement of the trough and if a curtain is pushed through the ring casting 5 it will not strike said knife.

The operation of the apparatus is substantially the same as that described in the before-
85 mentioned patent. The extension 20 of the carrier 10, bearing the handle 23, is turned, which simultaneously circumferentially and radially moves the knife with relation to the
90 shade, the action being such as to draw the knife into the curtain.

What I claim as new is—

1. In a shade-trimming apparatus, the combination with means for holding a shade, a revolving member bearing pins, a knife-carrying member provided with an open and a closed slot through which the pins pass, the open slot serving to permit the removal of the knife-carrying member by releasing one of the
95 100

screws, and a knife carried by said knife-carrying member, the said member and the knife being mounted to be circumferentially and radially moved, substantially as described.

5 2. The combination with means for holding a shade, of a knife-carrying member mounted to be circumferentially and radially moved, a knife carried thereby, a pivot for the knife, a slot formed in the knife, and a fastening-pin
10 coöperating with the slot to lock the knife after it has been adjusted, substantially as described.

15 3. The combination with means for holding a shade, of a knife-carrying member mounted to be circumferentially and radially moved, a knife fixed to the knife-carrying member and extending across the same, the knife being drawn into cutting position only by the radial

and circumferential movement imparted to the knife-carrying member when the apparatus 20 is operated, and a spring-catch to lock the knife-carrying member against radial movement, and the knife out of cutting position, said spring-catch being fixed to the shade-holding means and having a shoulder, said shoulder 25 springing under the knife-carrying member when the latter is moved toward the center of the apparatus, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses. 30

JAMES A. TUFTS.

Witnesses:

M. H. MALOTT,

J. E. JOHNTZ.