

No. 725,778.

PATENTED APR. 21, 1903.

J. J. RUSSELL, JR.
CURTAIN SECURER.

APPLICATION FILED DEC. 30, 1902.

NO MODEL.

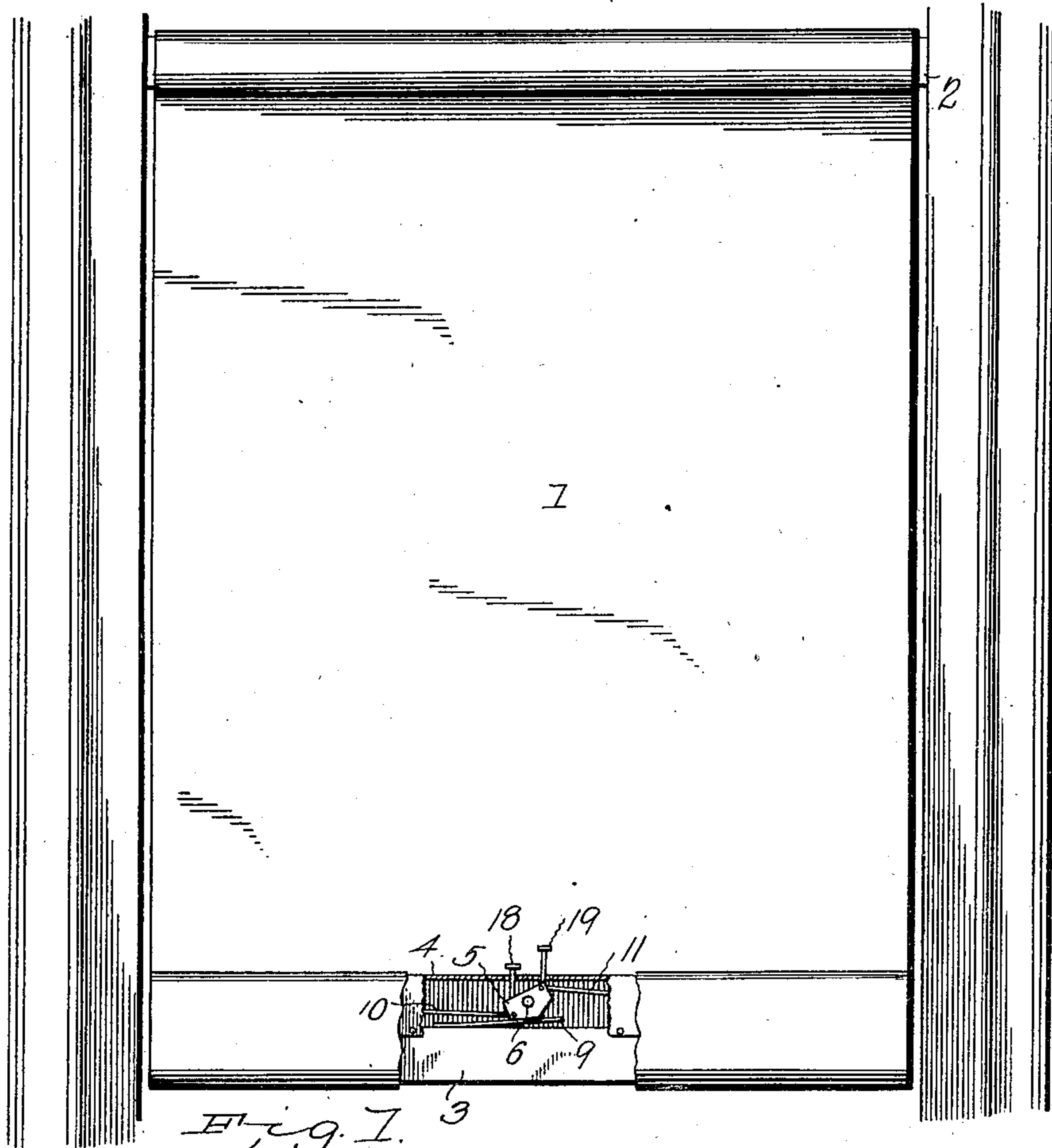


Fig. 1.

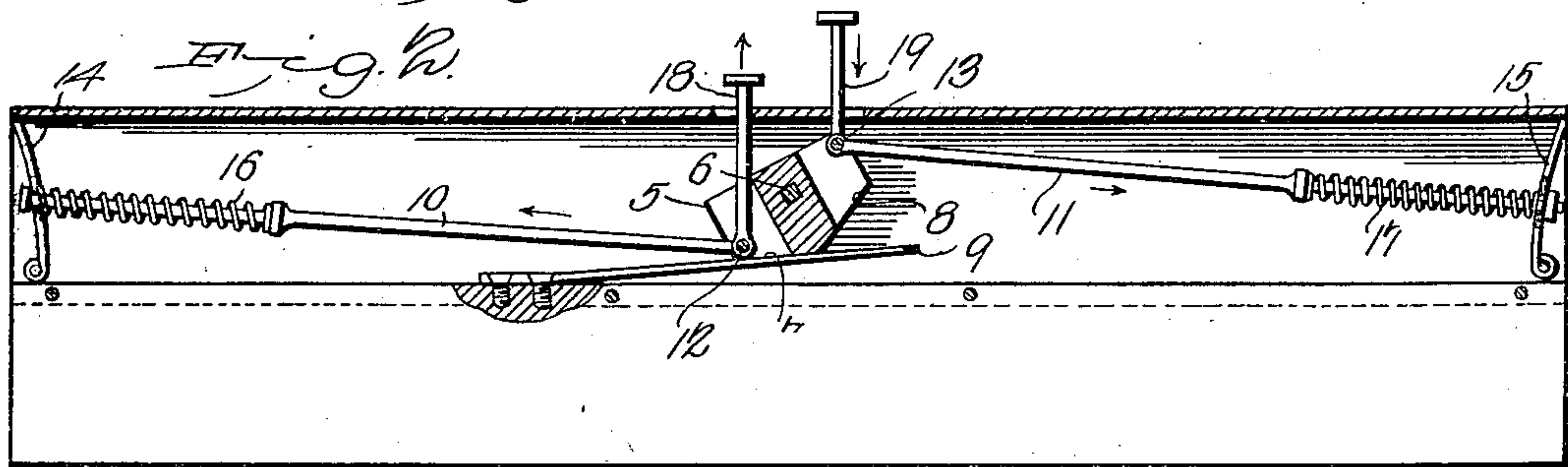


Fig. 2.

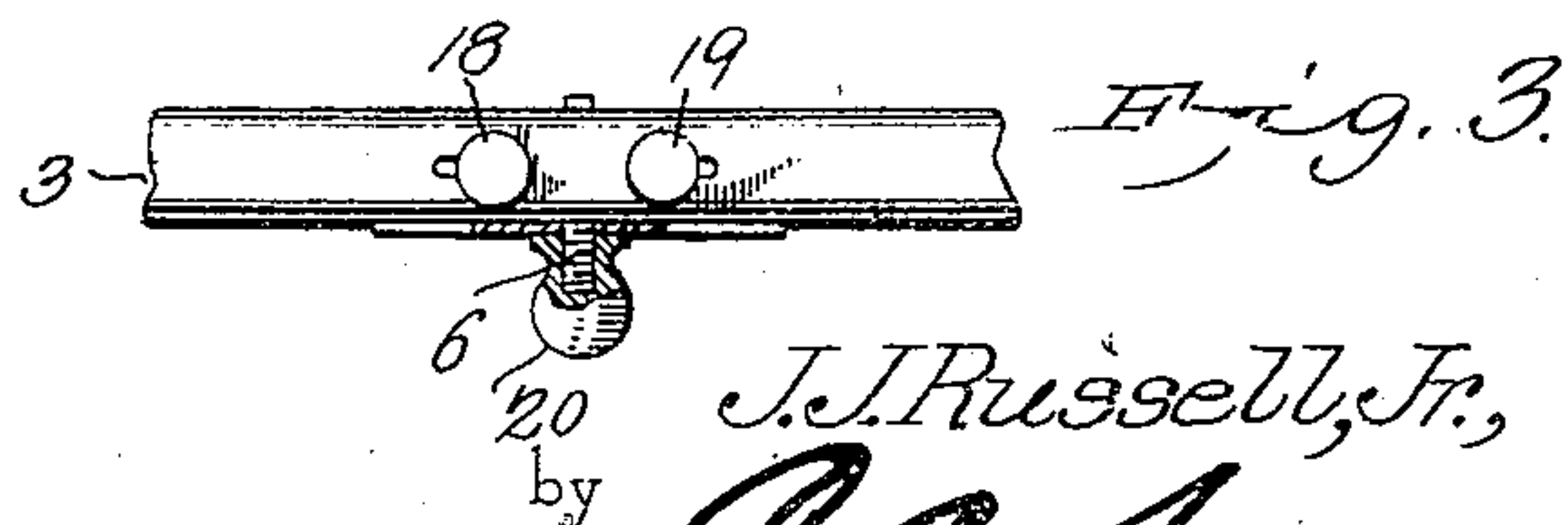


Fig. 3.

Witnesses

E. J. Stewart
G. J. Elmore

by
20

J. J. Russell, Jr., Inventor.
Chas. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

JOHN J. RUSSELL, JR., OF DEEPWATER, MISSOURI.

CURTAIN-SECURER.

SPECIFICATION forming part of Letters Patent No. 725,778, dated April 21, 1903.

Application filed December 30, 1902. Serial No. 137,198. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. RUSSELL, Jr., a citizen of the United States, residing at Deepwater, in the county of Henry and State of Missouri, have invented a new and useful Curtain-Securer, of which the following is a specification.

My invention relates to curtain-securers, and is especially designed for attachment to the sticks of spring-roller-actuated curtains for regulating the curtains to any desired height and to be automatically thrown into action by contact with the curtain-roller to prevent the curtain when fully wound passing beyond the roller.

The invention has for its objects to produce a device of this nature which will be simple of construction, may be readily applied to the curtain and actuated to maintain the curtain at any desired height, and will upon contact with the curtain-roller automatically lock the curtain to prevent it passing over the roller.

To these ends the invention comprises, in a curtain-securer, the combination, with the curtain roller and stick, of a pivoted head carried by the latter and adapted to be rocked on its pivot, latch members operated by the head, operative connections between the head and latch members, and means adapted when the curtain is fully wound upon its roller to contact with the latter and rock the head.

The invention further comprises the details of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 indicates a curtain having my device applied thereto, the latter being in section to disclose its internal mechanism. Fig. 2 is an enlarged sectional elevation of the device detached from the curtain. Fig. 3 is a detailed view of the device.

Referring to the drawings, 1 indicates a curtain provided at its upper end with the usual spring-actuated winding-roller 2, the window-casing or other framework for the curtain preferably having grooves in which the ends of the curtain-stick 3 travel. These parts may all be of the usual or any desired construction and operation.

In applying my invention I attach to one side of the curtain-stick and extending longitudinally of the same a metal casing 4.

This casing is preferably formed by bending a strip of thin sheet metal at its center and attaching its longitudinal edges to the edge of the window-stick by rivets or the like. When the stick is in position in the window-curtain, the casing will lie along the upper edge of the same. Within the casing and at its center between its ends I pivot a head 5, the axis 6 of which is journaled in the side walls of the casing. The head is provided on its under side with two cam-faces 7 and 8, formed by beveling the transverse face of the head.

9 is a leaf-spring attached to the edge of the stick in any suitable manner beneath the cammed face of the head, and this spring is adapted, when the head is rocked on its pivot in the manner and for the purpose to be presently described, to engage with either the face 7 or 8, thus securing the head in the position which it may occupy until positively rocked on its pivot, when the spring of course will yield to permit the rocking movement.

10 and 11 are arms eccentrically pivoted to the head, as at 12 and 13, respectively. These arms project from the head in opposite directions longitudinally of the casing and are attached at their outer ends, respectively, to two pivoted latching members 14 and 15. These latching members are mounted on horizontal pivots journaled in the side walls of the casing and are attached to the ends of the rods by nuts or in other suitable manner. Each rod is shouldered a short distance from its outer end and is encircled by a spring 16 17, which bears at one end upon the shoulder and at the opposite end upon the latch member, thus rendering the latch member yieldable to a certain extent irrespective of the movement of the rod.

18 and 19 indicate two vertical fingers passed through the transverse wall of the casing and pivoted, respectively, to the ends of the head and are adapted to rock the head on its pivot. Each of these fingers is provided at its outer end with a suitable head, to be pressed upon by the operator in actuating the device.

20 is a knob attached to one end of the pivot 6 outside of the casing, to be engaged by the finger of the operator while in the act of operating the fingers 18 and 19.

The operation of the device is as follows: Supposing the arms to be in their retracted positions, with the cam-face 7 in engagement with the leaf-spring 9, the finger 18 will be retracted, while the companion finger 19 will be extended. With the parts in this position the operator will grasp the knob 20 and the finger 19 and force the latter inward, which will rock the head on its axis, bring its cam-face 8 into engagement with the leaf-spring, extend the arms 10 and 11, and throw the latch members into engagement with the window-casing. To retract the latch members and release the curtain is merely a reversal of the steps set forth above. From this it will be seen that the curtain may be readily locked in any desired position. If with the latch members retracted the curtain is actuated to cause its spring-roller to wind the same, the finger 19, coming in contact with the roller, will be moved inward sufficiently to rock the head and throw the latch members into engagement, thus locking the curtain and preventing it passing over the curtain-roller. In this connection it is to be understood that the inward movement of the finger 19, due to its contact with the curtain-roller, although insufficient to fully rock the head, will before the finger 18 comes into contact with the roller be sufficient to throw the latch members outward into engagement with the window-casing.

From the foregoing it will be obvious that I produce a device which may be readily actuated to secure the curtain at any desired height and which will be operated automatically upon contact with the curtain-roller to lock the curtain and prevent it passing around the roller. In attaining these ends I do not limit or confine myself to the precise details herein shown and described, as various changes, such as would suggest themselves to

the skilled mechanic, may be made therein without departing from the spirit or scope of my invention.

Having thus described the invention, what I claim is—

1. In a curtain-securer, the combination with a framework or casing, of a curtain-roller, a curtain and its stick, a pivoted head carried by the latter and adapted to be rocked on its pivot, latch members operated by the head, operative connections between the head and latch members, and means, adapted when the curtain is fully wound upon its roller, to contact with the latter, and rock the head.

2. In a curtain-securer, the combination with the curtain-stick, of a pivoted head carried thereby and provided with an angular face, an arm pivotally attached to the head and adapted to be reciprocated thereby, a movable latch member operated by the arm, means for operating the head to extend or retract the arm and a spring member acting on the angular face of the head to maintain the arm in either position.

3. In a curtain-securer, the combination with the curtain-stick, of a pivoted head carried thereby and provided with two cam-faces, a pair of oppositely-extending arms pivotally attached to the head and adapted to be reciprocated thereby, a pair of movable latch members operated one by each arm, means for operating the head to extend or retract the arms, and a leaf-spring adapted to alternately engage the cam-faces to maintain the arms in the respective positions.

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

JOHN J. RUSSELL, JR.

Witnesses:

WM. L. PIGG,
OTTO HEMPEL.