

(No Model.)

S. R. SMITH.

ADJUSTABLE HANGER FOR CURTAIN OR SHADE ROLLERS.

No. 514,046.

Patented Feb. 6, 1894.

Fig. 1

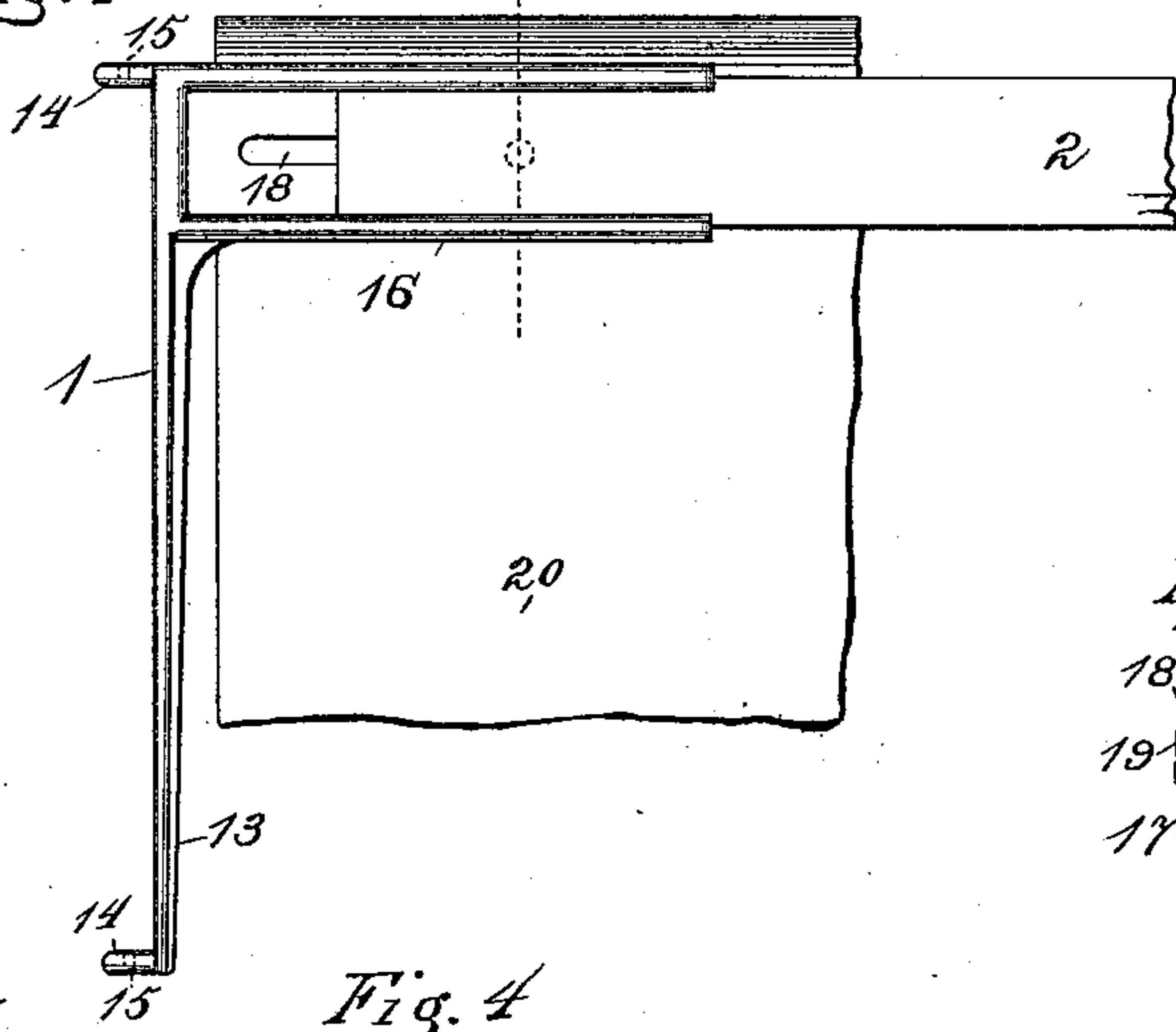


Fig. 2

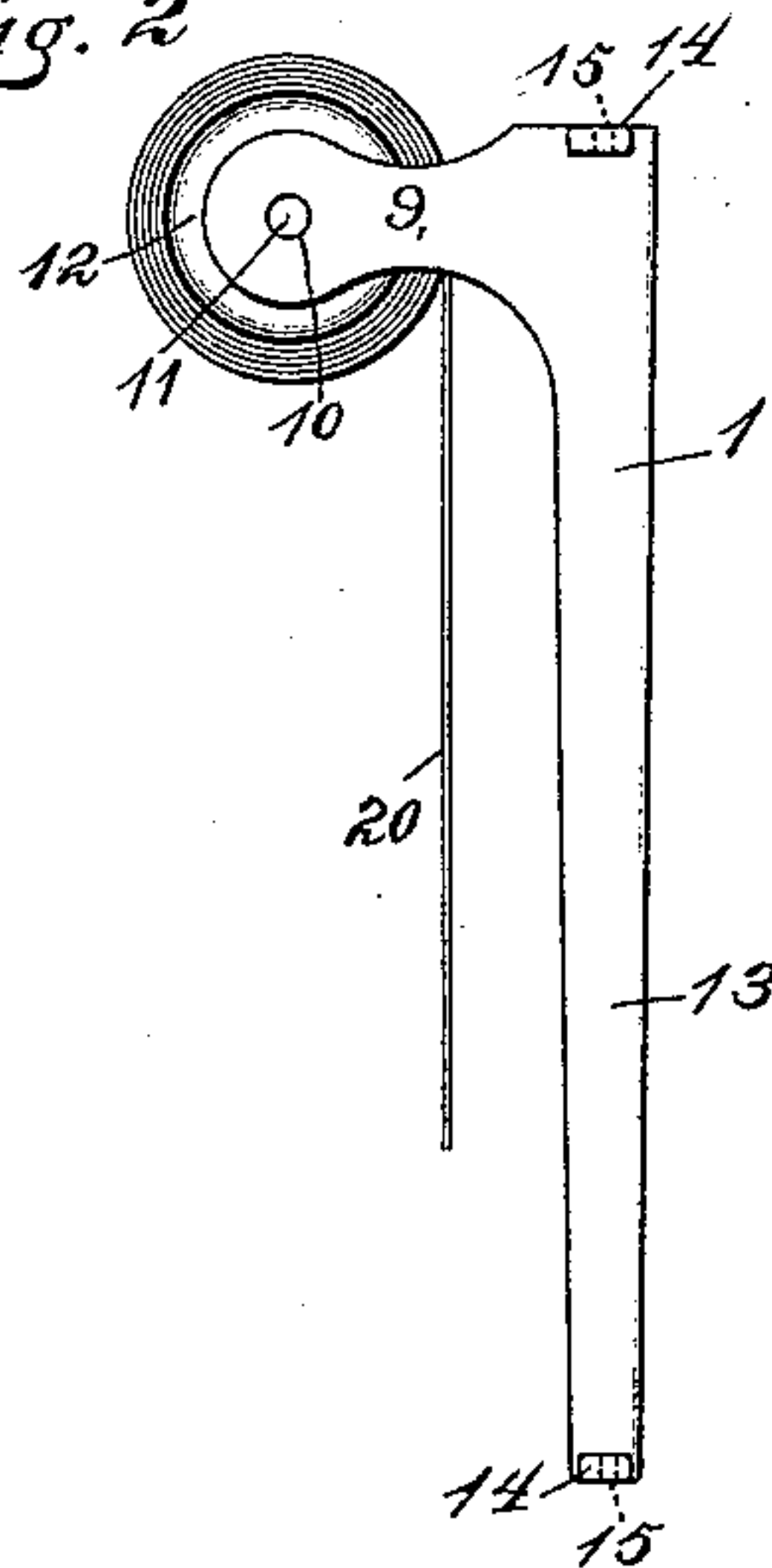


Fig. 3

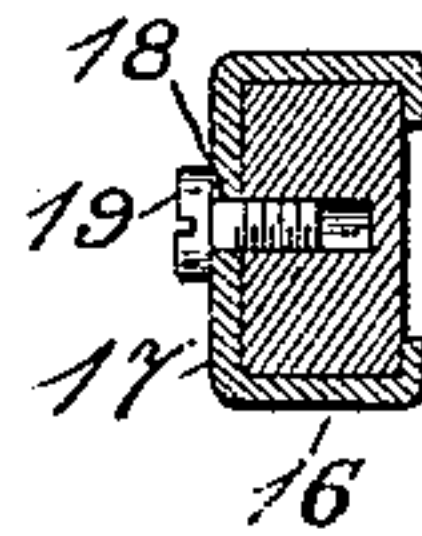


Fig. 4

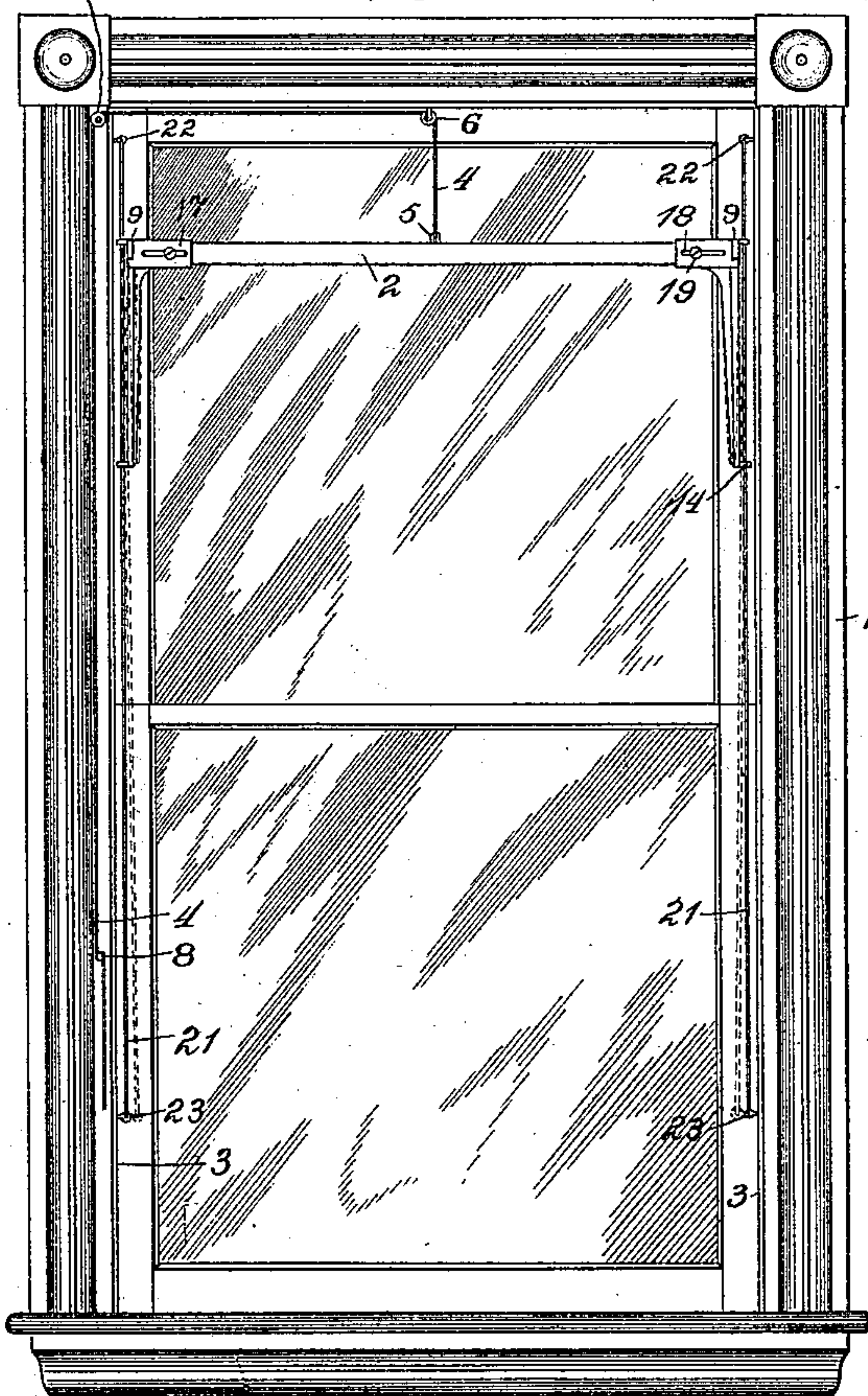
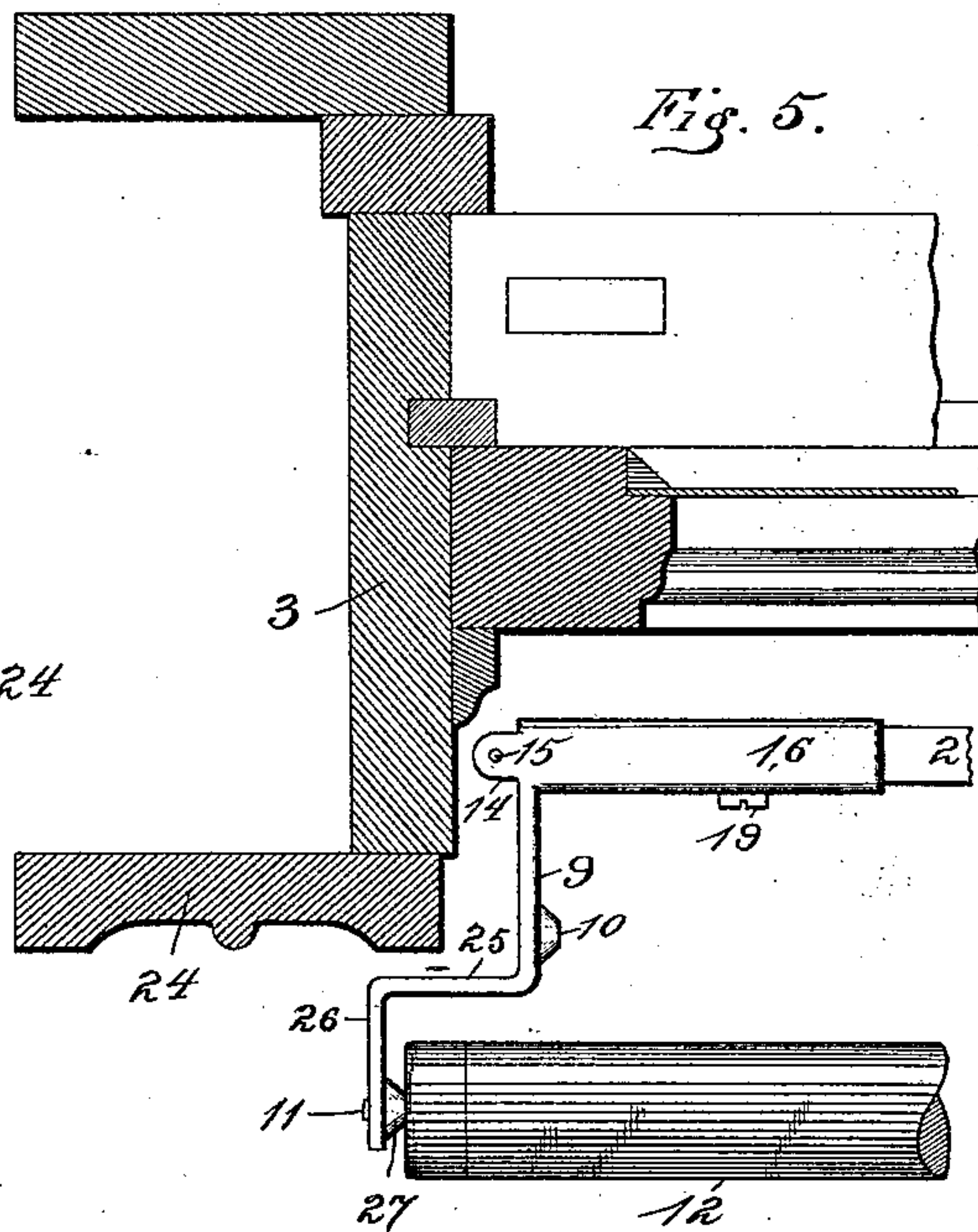


Fig. 5



Witnesses.
W. J. Sankey,
John Enders Jr.

Inventor:
Stephen R. Smith,
By Higdon & Higdon & Longan Attys.

UNITED STATES PATENT OFFICE.

STEPHEN R. SMITH, OF BELLEVILLE, ILLINOIS, ASSIGNOR OF ONE-HALF TO
GEORGE W. DETHARDING, OF SAME PLACE.

ADJUSTABLE HANGER FOR CURTAIN OR SHADE ROLLERS.

SPECIFICATION forming part of Letters Patent No. 514,046, dated February 6, 1894.

Application filed June 19, 1893. Serial No. 478,084. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN R. SMITH, of the city of Belleville, in the county of St. Clair and State of Illinois, have invented certain new and useful Improvements in Adjustable Hangers for Curtain or Shade Rollers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to curtain fixtures, and consists in the novel construction, arrangement and combinations of means for bodily raising and lowering the curtain or shade and its roller; means for adjusting the hangers to different lengths of roller, and improved means whereby curtain rollers of different lengths may be mounted either between the opposite window-jambes or upon the face of the adjacent inner casings of the window or other opening in the building.

The object of my invention is to provide an improved curtain fixture of the class above mentioned, which shall be simple in construction, efficient and reliable in operation and of reasonable cost.

In the drawings: Figure 1 is a detail rear elevation of a portion of a horizontal bar having one of the roll hangers and a portion of the curtain roll attached thereto. Fig. 2 is a detail side elevation of one of the vertically and laterally adjustable roll hangers. Fig. 3 is a cross-section taken on a vertical line drawn through the horizontal bar and roll hanger shown in Fig. 1. Fig. 4 is a front elevation of a window having my invention applied thereto. Fig. 5 is a detail sectional plan view of portions of a window-frame, having a modified form of my invention applied thereto.

1 indicates a pair of right and left hand roll hangers which are separately adjustable in a lateral direction with relation to the window-jamb upon a horizontal bar 2, in the manner presently described, and simultaneously adjustable vertically with relation to the height of the window. As the roll hangers 1 are identical I will limit my description to one of them. The horizontal bar 2 has a length considerably less than the distance between the opposite window-jambes 3, and

is preferably rectangular in cross-section, and is to be suspended by means of a cord or chain 4 having one end connected to a screw-eye or hook 5 which is attached to the upper edge of said bar midway of its length, and which passes over a small pulley or other similar fastening 6 secured in vertical alignment with the said screw eye 5 to the upper part of the window-frame, or if preferred thence passes over to one side of said window-frame, over another pulley 7, and thence downward along the adjacent window-jamb, and has its lower end secured to a suitable hook or other fastening 8 projecting from said jamb adjacent the lower end thereof, or fixed to some portion of the window-frame. The roll hanger 1 is provided with the usual horizontal arm 9 having a perforation 10 adjacent its outer free end to be engaged by the journal 11 of the shade-roll 12 in the usual manner. This hanger also has a thin flexible shank 13 formed integral with it and extending vertically. This shank, in cross-section, has a width greatly in excess of its thickness, for a purpose hereinafter mentioned. Projecting from the outer surface of the hanger and the shank 13 are horizontal ears 14 having aligned vertical perforations 15. One of these ears is preferably located adjacent the upper end of the shank 13 while the other is located at or closely adjacent the lower end thereof so that they will be located as far apart as possible. Formed upon the side of the hanger which is opposite the side from which the upper ear 14 projects, is a horizontal socket 16, which is rectangular in cross-section and loosely engaged by one end of the horizontal-bar 2. The front wall 17 of this socket is provided with a horizontal slot 18 extending to points adjacent the ends of said socket. A suitable screw or bolt 19 is inserted through this slot and screwed into the bar 2, and thereby locks said socket and the hanger carried thereby securely in position upon said bar, but adjustably so. This construction is repeated at each end of the bar 2, so that the shade roll 12 is mounted between and upon two arms 9, and so that the curtain or shade 20 is located in advance or in front of said bar, and may be unwound from and wound upon said roll, according to the well

known function of common spring actuated shade rolls now in use. A vertical wire or cord 21 is stretched vertically parallel with the adjacent window jambs 3, one adjacent each jamb, and preferably extending to points adjacent the upper and lower ends of said jambs. The upper ends of these cords or wires are secured to suitable hooks, nails or other fastenings 22 projecting from the upper portion of the window frame, and the lower ends of said wires or cords are secured to hooks, nails or other fastenings 23, projecting from the lower portion of said frame, so that said wires or cords will be held a distance from the surface of said jambs. These wires or cords 21 are preferably arranged parallel, but if through imperfect erection thereof, or through imperfect construction of the window-frame, they be located nearer together at their upper ends than at their lower ends, or vice versa, the vertical adjustment of the roll hangers thereon will not be seriously interfered with by reason of my improved construction of flexible shanks 13 of said hangers. The hanger at one side of the window has its aligned ears 14 mounted upon the wire or cord 21 at one side of the window, while the hanger at the opposite side of the window has its ears 14 mounted upon the other wire or cord 21, so that said hangers may slide vertically upon said wires or cords.

In the above described construction, the shade roll and hangers are located between the opposite window-jambs. In case the operator desires to locate the shade roll and its shade upon the inner face of the window casing 24, he may do so by means of the modified construction of the hangers 1 which I have illustrated in Fig. 5. In such case, the horizontal arm 9 is still provided with the above described bearing 10 for the shade-roll adjacent its outer end, but is provided with a lateral integral extension 25, which extends laterally from said arm in a horizontal direction in front of the window casing 24 and is provided thereat with an additional arm 26 which extends at right angles forward from said extension 25 and is provided at a point adjacent its free end with a bearing 27 for the journal of the curtain-roll, so that said roll may engage said last-named bearing and so that the shade or curtain carried thereby may overlap the casing 24. In this construction, the roll hanger at the opposite side of the window is also to be provided with the extension 25, additional arm 26 and bearing 27.

The operation is as follows: When it is desired to adjust the roll-hangers 1 upon the horizontal bar 2 for different lengths of rolls, all that is necessary is to loosen the screws or bolts 19, and slide the sockets 16 upon said bar, with slots 18 in said sockets engaging said screws, when said sockets and hangers may be

again locked in proper position by tightening said screws. When it is desired to raise and lower the shade roll and hangers bodily upon the wires or cords 3, all that is necessary is to loosen the cord 4 from its fastening 8 at the side of the window, and permit it to pass over the rollers 6 and 7. If, by any imperfection in construction the lower ends of the wires 21 should be located nearer each other than their upper ends are, the free movement of the hangers upon said wires will not be interfered with, for the reason that the shanks 13 of said hangers are very flexible laterally, and will conform themselves automatically to the imperfect construction and arrangement of said wires; likewise if the upper ends of said wires be improperly located by an unskilled person, or by reason of settling of the window frames or building. This improper arrangement of the wires is indicated by dotted lines in Fig. 4.

What I claim is—

1. The improved curtain fixture, constructed with right and left hand roll hangers 1, provided with the usual horizontal arm 9 carrying a bearing for the shade-roll, a horizontal bar 2 angular in cross-section upon which said hangers are mounted and separately adjustable, the cord or chain 4 having one end connected to said bar and passing over a fastening 6 secured to the upper part of the window-frame and thence downward, so that said bar and the shade-roll carried thereby may be bodily adjusted in the window up and down, thin flexible vertical shanks 13 formed integral with said hangers and having a width greatly in excess of their thickness, horizontal ears 14 having vertical perforations 15 and projecting from the outer surface of said hangers and said shanks, one adjacent the lower end of each shank, vertical guide-wires 21 stretched adjacent each window-jamb, and the ears 14 mounted upon said wires, substantially as herein specified.

2. In a curtain fixture, the improved roll-hanger provided with the usual horizontal arm 9 having a bearing for the journal of the roll, a thin flexible vertical shank 13 formed integral with the body of the hanger and having a width greatly in excess of its thickness so that it may bend at different points in its length, horizontal ears 14 having aligned vertical apertures 15 and projecting one from said hanger and one from said shank, and an integral horizontal socket 16 rectangular in cross-section and provided with a horizontal slot 18 extending to points adjacent its ends, substantially as herein specified.

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

STEPHEN R. SMITH.

Witnesses:

RICHARD WANGELIN,
E. H. ABEND.