

L. F. WEIHER.
WINDOW SHADE SUPPORT.
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978,246.

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Fig. 1.

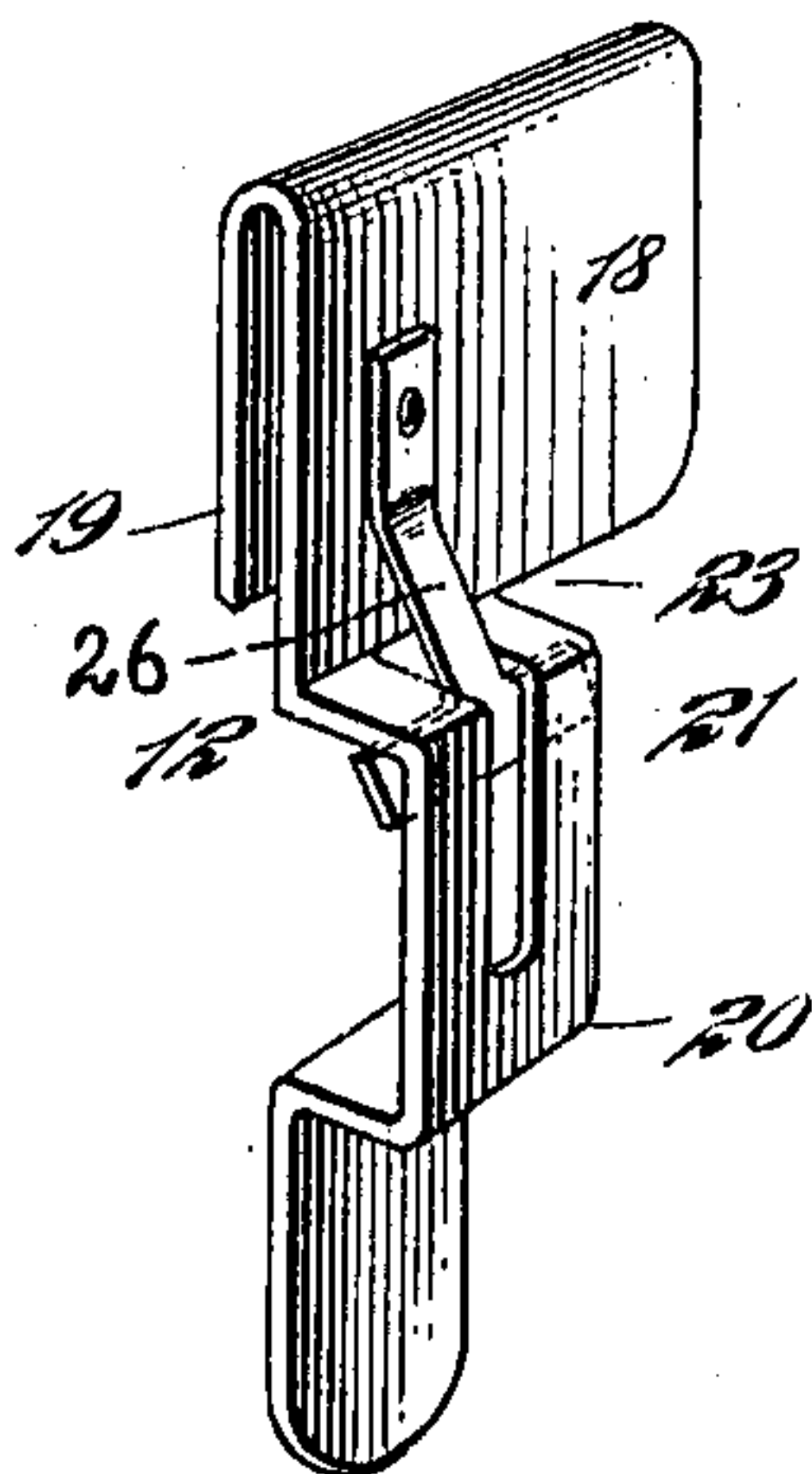
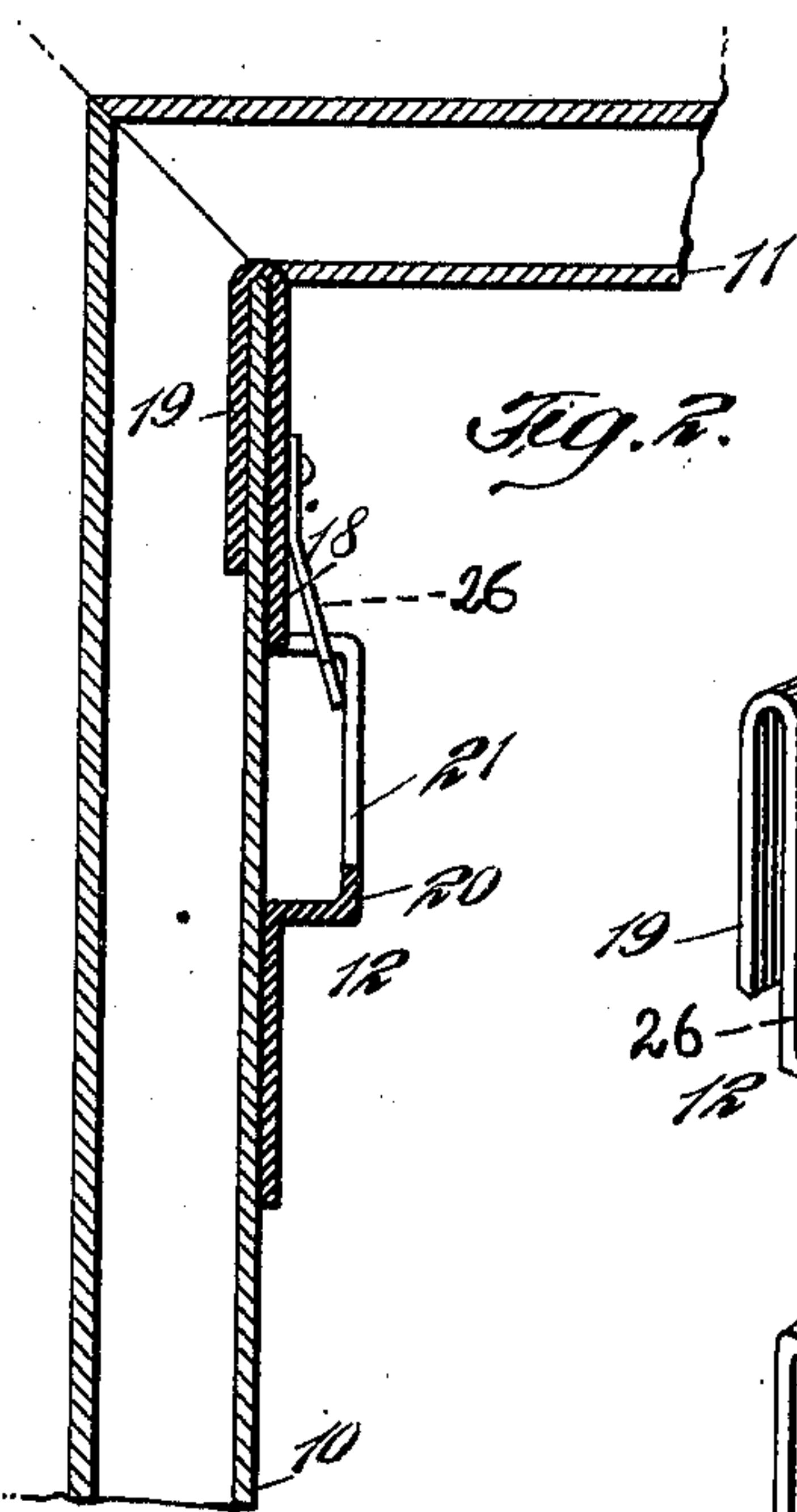
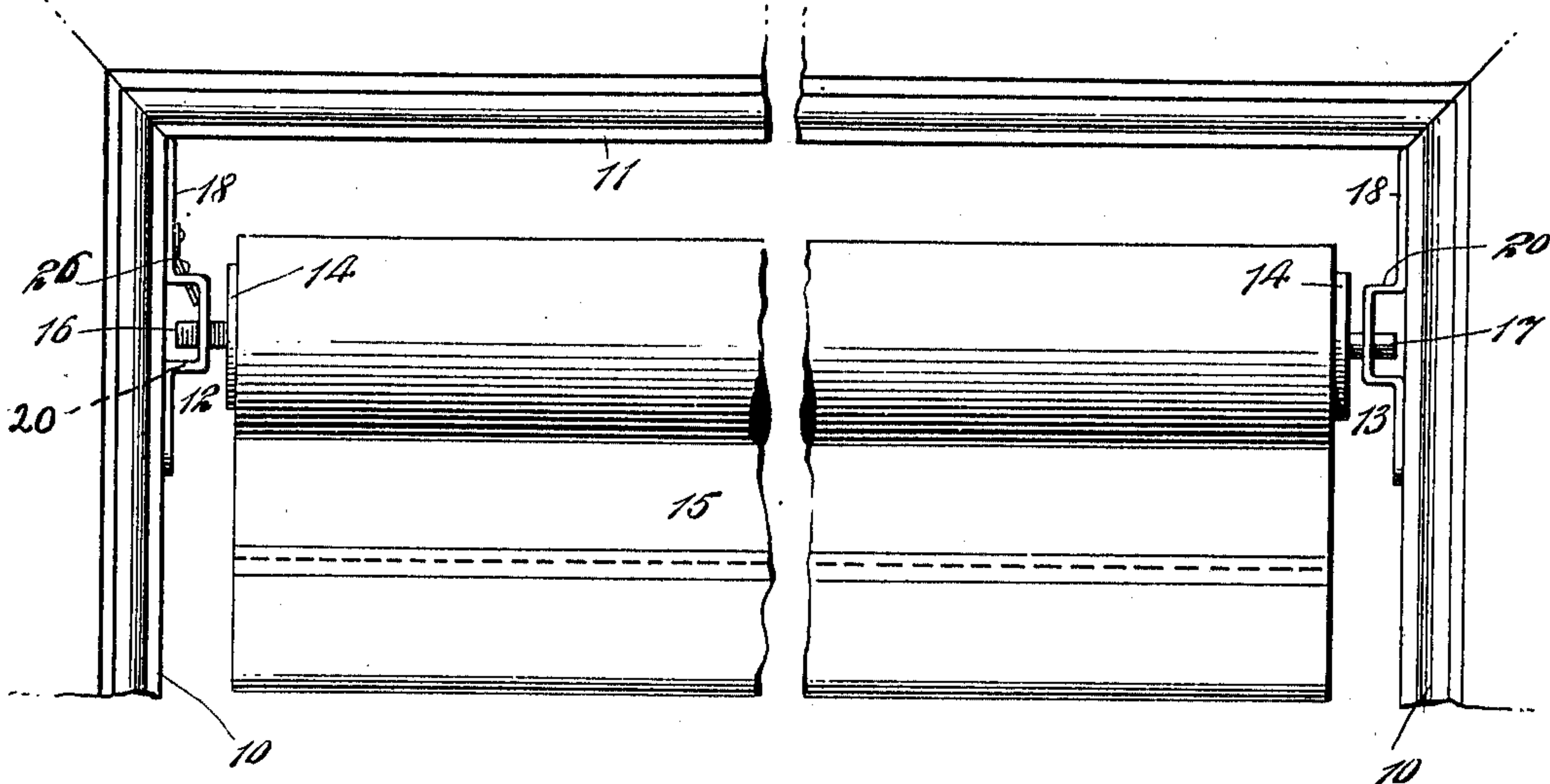


Fig. 3.

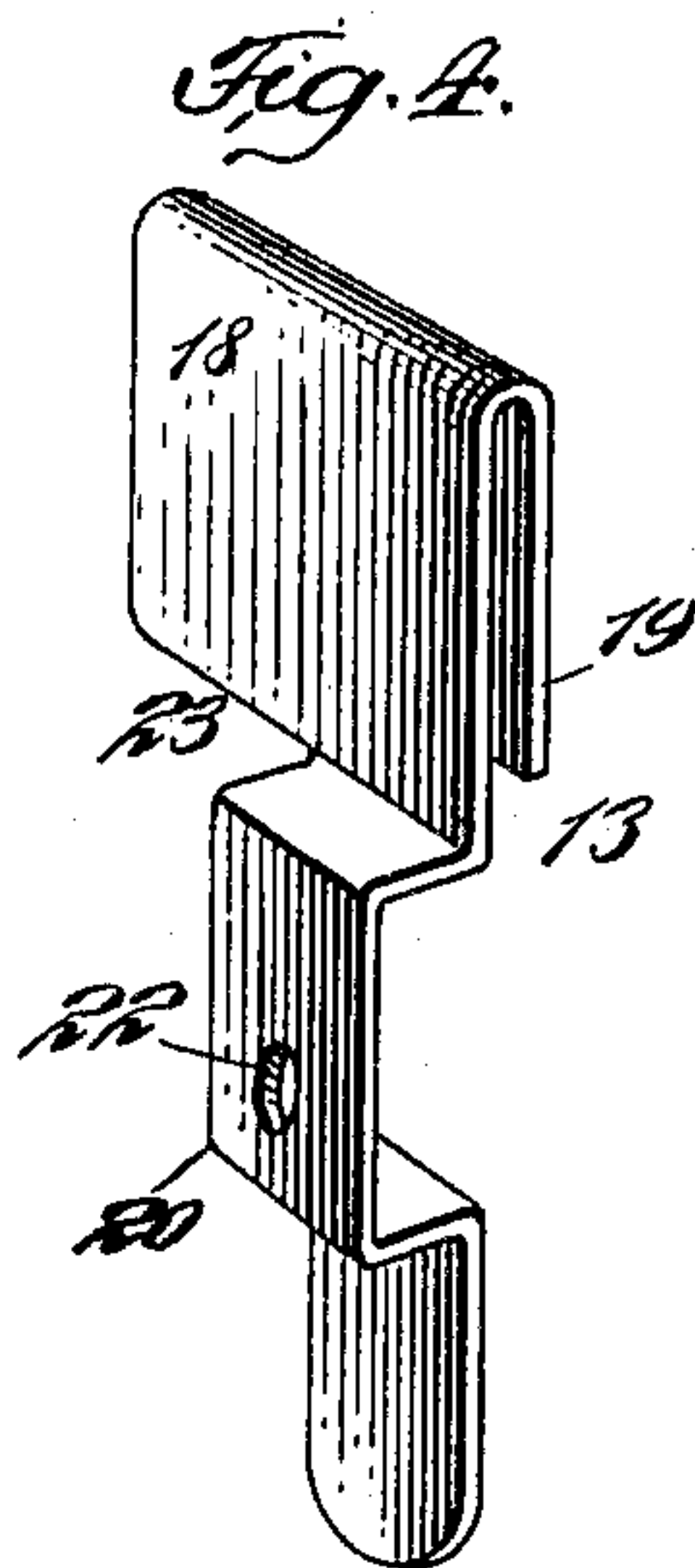


Fig. 4.

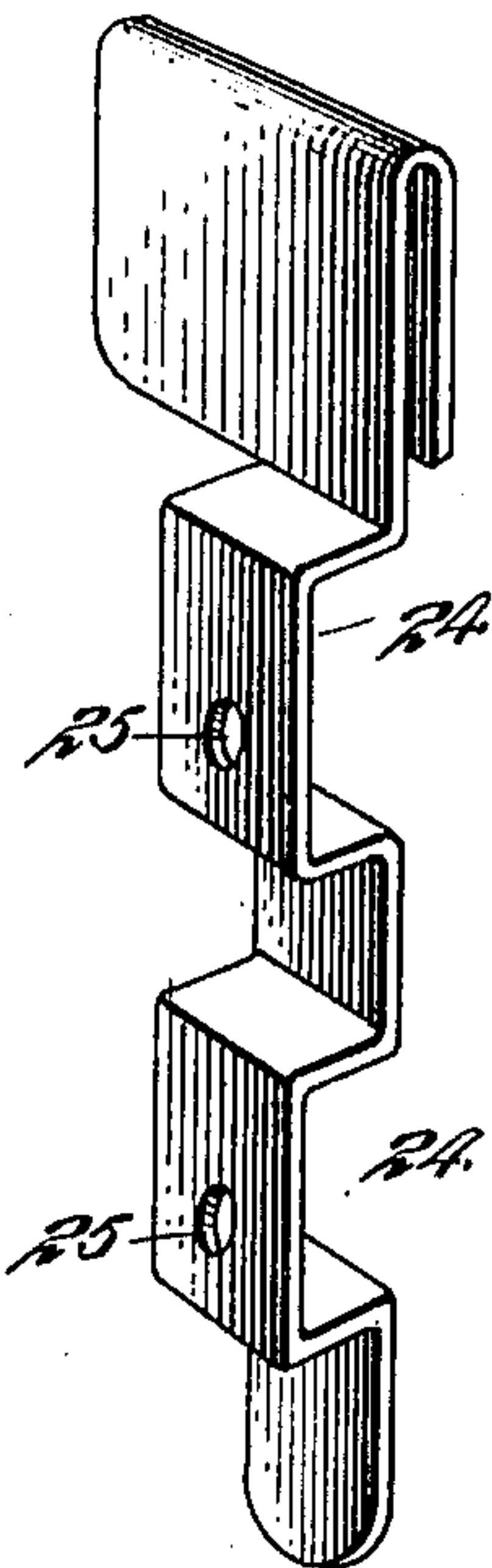


Fig. 5.

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UNITED STATES PATENT OFFICE.

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WINDOW-SHADE SUPPORT.

978,246.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LOUIS F. WEIHER, a citizen of the United States, and a resident of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Window-Shade Supports, of which the following is a specification.

The invention has reference to iron window-casings used in the construction of modern fire-proof buildings, and it consists in the novel means hereinafter described and claimed applied to the facing removable side portions of said casings for holding the usual spring-rollers for the window shades.

The purpose of the invention is to obviate the difficulties, inconvenience and expense heretofore experienced in applying shades to iron window-casings, and to provide shade-roller holders adapted to adequately receive and support such rollers and to be quickly and securely applied to the iron window frames without the use of screws or the necessity of drilling and tapping holes in the frames.

The shade-roller holders of my invention are each in one integral piece of metal, preferably sheet steel, and in the form of a vertical hanger having a box-like portion containing a bearing for the stud-end of the roller and the upper end of the hanger being of hook construction to be applied over the upper end of the "stop-bead" or removable strip constituting a part of the side of the window-casing.

The invention will be fully understood from the detailed description hereinafter presented, reference being had to the accompanying drawings, in which:

Figure 1 is a front view, partly broken away, of the upper portion of a metal window-casing equipped with shade-roller holders embodying my invention; Fig. 2 is a vertical longitudinal section through a portion of one side of the same, the holder also being in vertical section; Fig. 3 is a detached perspective view of one of the holders, this holder having in its box-like portion a vertical slot to receive and afford a bearing for the stud of the roller connected with the usual spring-mechanism; Fig. 4 is a like view of the other or companion holder having in its box-like portion a circular aperture to receive and afford a bearing for the end-stud which is rigid with the roller, and Fig. 5 is a detached perspective view show-

ing the manner of constructing the holders of my invention when they are intended at each window to support two shade-rollers, as for instance a roller having a white shade and a roller having a blue or green or other dark shade.

In the drawings, 10 designates the facing vertical "stop-beads" or removable strips at the opposite sides of the window-casing, 11 the lintel-strip whose ends match the upper ends of said removable strips, 12 one of the shade-roller holders, 13 the other or companion shade-roller holder, 14 the shade-roller, 15 the shade thereon, 16 the polygonal stud connected with the usual spring-mechanism of the roller, and 17 the cylindrical stud which is rigid with its end of the roller and rotates therewith.

The metal window-casing and the shade-roller, with its shade, are of customary construction and therefore require no special description.

The holders 12, 13 in their combination with the window-casing and shade-roller embrace the novel features of my invention and their construction is clearly shown in Figs. 3 and 4, while their manner of application and use is illustrated in Figs. 1 and 2. Each of the holders 12, 13 is in one integral strip of metal, preferably sheet steel, bent to form an exposed member 18 and an upper hook-member 19, the latter hooking over the upper end of the stop-bead or strip 10 and closely engaging the inner face of the same, while the said member 18 firmly binds against the outer face of said strip. The holders 12, 13 not only bind against the strips 10 but are held down by the ends of the lintel strip 11, and hence said holders when applied to position become very firmly secured without the use of screws or other equivalent means. The holders 12, 13 being of flat sheet metal afford sufficient width at their upper ends to resist any tendency to pivotal or swinging motion, especially when engaged across the width of their upper ends by the adjoining edges of the window-casing strips 10, 11.

The exposed members 18 of the holders 12, 13 are formed intermediate their ends with outwardly projecting box-like sections 20 which afford the bearings for the roller-studs 16, 17, the section 20 of the holder 12 being formed with a vertical recess or slot open at its upper end to receive the stud 16 and the section 20 of the holder 13 hav-

ing formed in it an aperture 22 to receive the stud 17. The outer vertical portions of the box-like or bearing sections 20 stand free of the window-casing strips 10 but
5 above and below said sections the holders engage said strips.

The stop-beads or strips 10 are usually secured in position by a few screws and in order that the holders 12, 13 may not
10 cover over and thereby prevent access to the heads of any screws which it may be necessary to apply near the upper ends of said strips, I cut out or recess the outer edge portions of the holders, as at 23, to afford
15 the requisite free space for any screws necessary for the upper ends of the strips 10. The roller 14 will be applied to the holders 12, 13 in the same manner that it is customarily applied to the usual bearings com-
20 monly secured to wooden window casings, one purpose of my invention being not to vary the customary manner of mounting shade-rollers.

The holders 12, 13 shown in Figs. 1, 2, 3 and
25 4 are intended to receive a single shade-roller. In many buildings, however, such as apartment houses, it is usual to employ at each window two shades, one of white fabric and one of dark fabric, and in adapting my in-
30 vention to the use of two shade-rollers I construct the holders with two box-like sections 24, as shown in Fig. 5, one being below the other, and each affording a bearing for the end of one roller. In Fig. 5 I show the sec-
35 tions 24 as having apertures 25 for the cylindrical studs of the shade-rollers, and it will be understood that the companion holder for that illustrated in Fig. 5 will have in its box-like sections vertical slots
40 or recesses corresponding with the slot 21 shown in Fig. 3 for the polygonal studs of the rollers.

Whether the shade-roller holders are in-
tended to receive one roller or two rollers,
45 I preferably provide the holders 12 with spring-latches 26 for locking the polygonal studs 16 of the rollers in the slots 21 of said holders. The latch 26 is a piece of spring metal preferably of inverted T-shape riveted
50 to the holder 12 and having its cross-bar portion within the section 20 and crossing the slot 21 therein. The latch 26 yields to the pressure of the stud 16 when the latter is applied to the slot 21 and thereafter
55 springs to its initial position closing the end of said slot and locking the stud 16 therein. The roller is by means of the latch 26 prevented, on any rough handling of the win-
60 dows-shade, from becoming dislodged from the holder 12, and in addition the latch 26 enables the holder to be applied to the lower end of the window-casing when a shade-roller is desired in that location, the holder being then inverted in position and hooked under
65 the lower end of the stop-bead. The holder

12 is shown as applied to the upper end of the left hand stop-bead but in case a roller should be required or desired at the lower end of the window, said holder 12, without
change therein, would be applied to the
70 lower end of the right hand stop-bead, the latch 26 then serving to close the then lower end of the slot 21 and, at its cross-bar, support the polygonal stud 16 of the roller.

What I claim as my invention and desire
75 to secure by Letters Patent, is:

1. In combination with a metal window casing having facing stop-beads (10) and part (11) whose ends match the ends of said stop-beads, shade-roller holders therefor
80 each comprising an integral metal strip or plate to engage the face of a stop-bead of said casing and having a box-like section affording a bearing for a stud at the end of the shade-roller and at one end being bent
85 over in line with its length to form a hook-member and hooked over the end of the stop-bead and engaged by the said part (11), which binds against the said holders and prevents vertical movement of the same, said
90 holders closely binding against the inner and outer faces of the stop-beads and one holder in its box-like portion being slotted to receive the polygonal stud of the roller spring-mechanism, while the other holder in
95 its box-like portion has a bearing for the usual end-stud rigidly connected with the roller; substantially as set forth.

2. In combination with a metal window casing having facing stop-beads (10) and
100 part (11) whose ends match the ends of said stop-beads, shade-roller holders therefor each comprising an integral metal strip or plate to engage the face of a stop-bead of said
105 casing and having a box-like section affording a bearing for a stud at the end of the shade-roller and at one end being bent over in line with its length to form a hook-member and hooked over the end of the stop-bead
110 and engaged by the said part (11), which binds against the said holders and prevents vertical movement of the same, said holders closely binding against the inner and outer
115 faces of the stop-beads, and one holder in its box-like portion being slotted to receive the polygonal stud of the roller spring-mechanism, while the other holder in its box-like
120 portion has a bearing for the usual end-stud rigidly connected with the roller, and both of said holders being recessed at their outer portions, as at 23, to clear a space for any screws necessary for securing the stop-beads; substantially as set forth.

3. In combination with a metal window casing having facing stop-beads (10) and
125 part (11) whose ends match the ends of said stop-beads, shade-roller holders therefor each comprising an integral metal strip or plate to engage the face of a stop-bead of said
130 casing and having a box-like section afford-

ing a bearing for a stud at the end of the shade-roller and at one end being bent over in line with its length to form a hook-member and hooked over the end of the stop-bead 5 and engaged by the said part (11), which binds against the said holders and prevents vertical movement of the same, said holders closely binding against the inner and outer faces of the stop-beads and one holder in its 10 box-like portion being slotted to receive the polygonal stud of the roller spring-mechanism and provided with a spring-latch to lock said stud in said slot, while the other holder in its box-like portion has a bearing

for the usual end-stud rigidly connected with 15 the roller, said spring-latch being a strip of metal riveted at one end to the holder and having a yielding cross-bar within the box-like section thereof and crossing and at its ends extending laterally beyond the edges of 20 the slot therein; substantially as set forth.

Signed at New York city, in the county of New York and State of New York, this first day of March A. D. 1910.

LOUIS F. WEIHER.

Witnesses:

CHAS. C. GILL,
ARTHUR MARION.