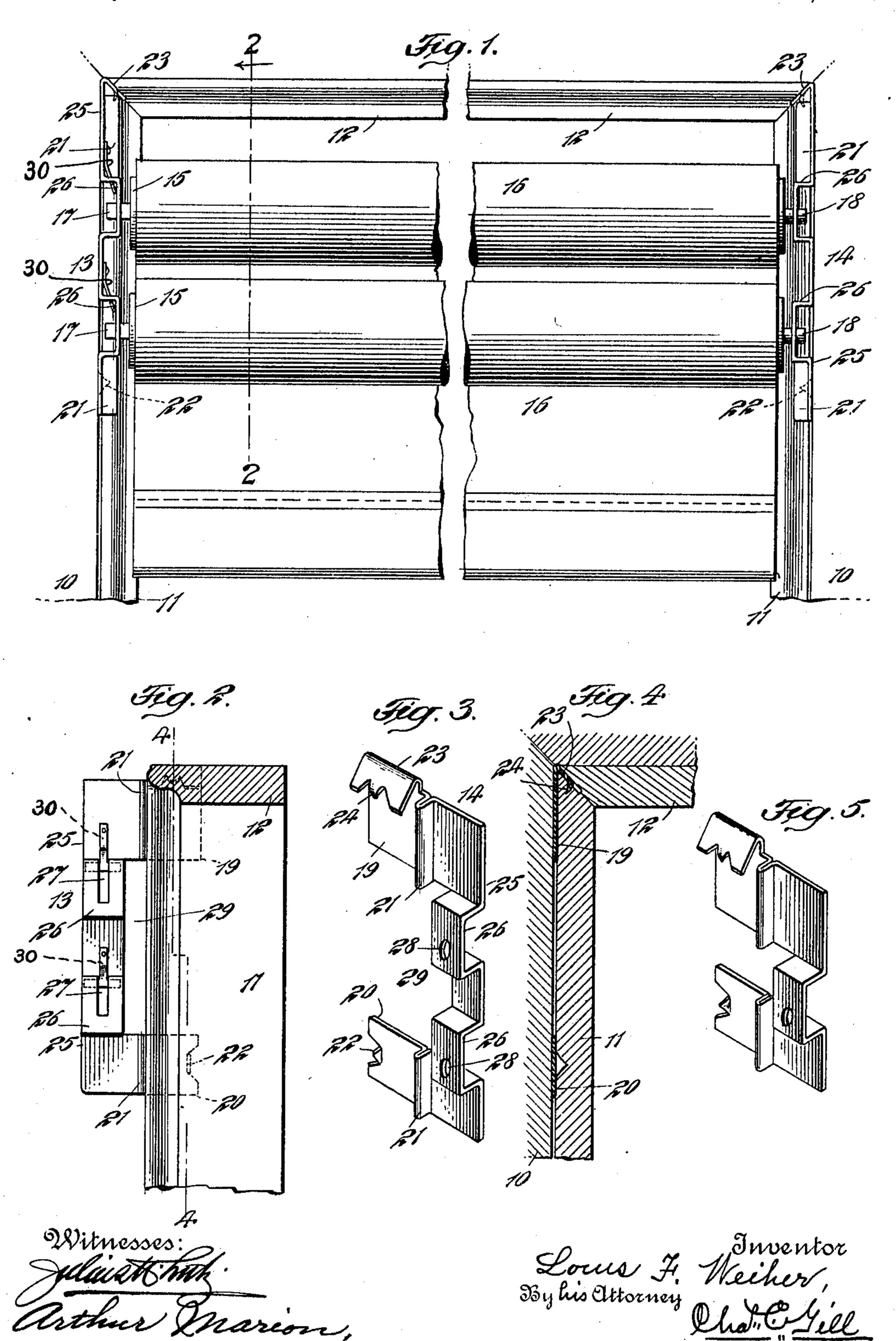
L. F. WEIHER.
WINDOW SHADE SUPPORT.
APPLICATION FILED MAR. 4, 1910.

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UNITED STATES PATENT OFFICE.

LOUIS F. WEIHER, OF NEW YORK, N. Y.

WINDOW-SHADE SUPPORT.

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Specification of Letters Patent. Patented Dec. 13, 1910.

Application filed March 4, 1910. Serial No. 547,211.

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 5 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 relates to improvements in 10 holders to be applied to window-casings for supporting and permitting the correct operation of the usual spring-rollers carrying window-shades, and said invention consists in the novel features and structure herein-15 after described, and particularly pointed

out in the claims.

The shade-roller holders of my invention are particularly adapted for application to wooden window-casings, and among the ad-20 vantages of the invention it may be mentioned that my holders permit of a very convenient and ready application of the shaderoller to position, that they support the roller forwardly of the front edges of the ²⁵ usual removable "stop-beads" and thereby provide for an increased space between the shade and window-sash for the passage of air, that by reason of their position they admit of the use of wider shades than can be 30 applied to windows whose roller-supports are nailed to the faces of the "stop-beads" and compel the use of shades less in width than the distance between the facing sides of said beads, and that they may be firmly 35 secured to the window-casings without being nailed or screwed thereto.

The shade-roller holders of my invention are each preferably in one integral piece of sheet metal, preferably steel, and they may 40 be constructed to support two shades or only

one shade as may be desired.

The invention will be fully understood from the detailed description hereinafter presented, reference being had to the ac-

45 companying drawings, in which:

Figure 1 is a front view, partly broken away, of the upper portion of a windowcasing equipped with the holders of my invention and two shade-rollers supported ⁵⁰ thereby. Fig. 2 is a vertical transverse section of the same on the dotted line 2—2 of Fig. 1, the shade-rollers being omitted. Fig. 3 is a detached perspective view of one of the holders, the holder shown being the one to re-55 ceive the end-studs rigidly connected with the rollers and intended to rotate therewith; Fig.

4 is a vertical section through a portion of the window-casing and one of the shade supports on the dotted line 4-4 of Fig. 2, and Fig. 5 is a detached perspective view of my 60 shade-roller holder as it will be constructed when intended to support only one roller.

In the drawings, 10 designates the sides of the window casing, 11 the usual removable facing "stop-beads" or strips secured 65 thereto, 12 the lintel strip or bead whose ends match the upper ends of said "stopbeads", 13 one of the shade-roller holders, 14 the other or companion shade-roller holder, 15 the shade-rollers, 16 the shades 70

thereon, 17 the polygonal studs connected with the usual spring-mechanisms of said rollers, and 18 the cylindrical end-studs which are rigid with the rollers and rotate

therewith.

The window casing and the shade-rollers and shades are of customary character and

require no special description.

The holders 13, 14 in their construction and combination with the window-casing 80 and shade-roller or rollers embrace the novel features of my invention. Each of the holders 13, 14 is in one integral strip or plate of metal, preferably sheet steel, bent into the required form for immediate appli- 85 cation to the window-casing, and said holders correspond in construction with each other except that the holder 13 is adapted to receive and prevent rotation of the polygonal end studs 17 of the rollers, while the 90 holder 14 affords bearings for the end studs 18 of the rollers and provides for their rotation with the rollers. The holders 13, 14 have, each, upper and lower arms or parts 19, 20 held between a "stop-bead" 11 and 95 side 10 of the window-casing, vertical shoulders 21 to engage the inner edge of said stopbead and aline the holder therewith, a tooth 22 on the arm 20 to be driven into the inner side of the stop-bead, a laterally and down- 100 wardly extending hook-flange 23 at the upper edge of the arm 19 to hook over the upper end of the stop-bead, a tooth 24 on said flange 23 to be driven into the upper end of the stop-bead, and a plate-section 25 105 extending inwardly or toward the room and formed with laterally projected box-like portions 26 affording bearings for the end studs on the shade-rollers. The box-like portions 26 of the holder 13 have formed in 110 them vertical slots or recesses 27 open at their upper ends to receive the polygonal

studs 17 on the shade-rollers, and said studs when in said slots or recesses are held against rotation. The box-like portions 26 of the holder 14 have round bearing aper-5 tures 28 to receive the cylindrical rollerstuds 18 and permit the same to rotate therein. The holders 13, 14 are recessed or cut away between the arms 19, 20, as at 29, so that the box-like sections 26 may be con-10 veniently pressed laterally from the platesections 25. The shoulders 21 are preferably formed by outward folds in the plates from which the holders 13, 14 are constructed. The holders 13, 14 are securely held in 15 position by the clamping of their arms 19, 20 between the sides 10 of the window-casing and the stop-beads 11, the provision of the hook-flanges 23, the engagement of the teeth 22, 24 with the stop-beads and the bearing 20 of the shoulders 21 against the edges of said beads. The weight of the shades and their rollers has a natural tendency to drive the lower ends of the holders 13, 14 outwardly or in a direction from the room and this 25 force is effectually overcome by the engagement of the shoulders 21 with the edges of the beads 11. The holders 13, 14 are sustained against downward movement by the hook-flanges 23 and beads 11, and are pre-30 vented from having any upward movement by the engagement of the outer ends of the lintel-strip 12 with the upper surfaces of said flanges, said strip 12 also aiding in maintaining the holders 13, 14 in firm ver-35 tical position.

When the holders are intended to support a single shade-roller they will be formed with only one box-like section to receive the roller end-studs, as will be understood 40 from Fig. 5 without detailed description. Whether the shade-roller holders are intended to receive one roller or two rollers, I preferably provide the holders 13 with spring-latches 30 for locking the polygonal 45 studs 17 of the rollers in the slots 27 of said holders. The latch 30 is a piece of spring metal preferably of inverted T-shape riveted to the holder 13 and having its cross-bar portion within the section 26 and crossing 50 the slot 27 therein. The latch 30 yields to the pressure of the stud 17 when the latter is applied to the slot 27 and thereafter springs to its initial position closing the end of said slot and locking the stud 17 therein. 55 The roller is by means of the latch 30 prevented, on any rough handling of the window-shade, from becoming dislodged from the holder 13, and in addition the latch 30

enables the holder to be applied to the lower 60 end of the window-casing when a shaderoller is desired in that location, the holder being then inverted in position and hooked under the lower end of the stop-bead. The holder 13 is shown as applied to the upper 65 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 13, without change therein, would be applied to the lower end of the right hand stop-bead, the latch 30 then serving to close the then 70 lower end of the slot 27 and, at its cross-bar, support the polygonal stud 17 of the roller.

What I claim as my invention and desire

to secure by Letters Patent, is:

1. In combination with a window-casing, 75 shade-roller holders therefor each comprising a metal plate having an arm between a stop-bead and a side of said casing, an upper member hooked over the upper end of said stop-bead and an inwardly extending plate- 80 section having a box-like portion affording a bearing for a stud at the end of the roller, one holder in its box-like portion being slotted to receive the polygonal stud of the roller spring-mechanism and the other holder 85 in its box-like portion having a bearing for the usual end-stud rigidly connected with the roller; substantially as set forth.

2. In combination with a window-casing, shade-roller holders therefor each compris- 90 ing a metal plate having an arm between a stop-bead and a side of said casing, an upper member hooked over the upper end of said stop-bead and an inwardly extending plate-section having a box-like portion af- 95 fording a bearing for a stud at the end of the roller, one holder in its box-like portion being slotted to receive the polygonal stud of the roller spring-mechanism and the other holder in its box-like portion having a bear- 100 ing for the usual end-stud rigidly connected with the roller, and said upper member and said arm of each holder having a tooth to be driven into the stop-bead contiguous thereto; substantially as set forth.

3. In combination with a window-casing, shade-roller holders therefor each comprising a metal plate having an arm between a stop-bead and a side of said casing, an upper member hooked over the upper end of 110 said stop-bead, a flange engaging the inner edge of the stop-bead and an inwardly extending plate-section having a box-like portion affording a bearing for a stud at the end of the roller, one holder in its box-like 115 portion being slotted to receive the polygonal stud of the roller spring-mechanism and the other holder in its box-like portion having a bearing for the usual end-stud rigidly connected with the roller; substantially as 120 set forth.

4. In combination with a window-casing, shade-roller holders therefor each comprising a metal plate having upper and lower arms between a stop-bead and a side of the 125 casing, an upper member hooked over the upper end of said stop-bead and an inwardly extending plate-section having a box-like portion affording a bearing for a stud at the end of the roller, one holder in its box- 130

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like portion being slotted to receive the polygonal stud of the roller spring-mechanism and the other holder in its box-like portion having a bearing for the usual end-stud rigidly connected with the roller; substantially as set forth.

5. In combination with a window-casing, shade-roller holders therefor each comprising a metal plate having upper and lower 10 arms between a stop-bead and a side of the casing, upper and lower vertical flanges along said arms engaging the edge of the stop-bead, an upper member hooked over the upper end of said stop-bead and an in-15 wardly extending plate-section having a box-like portion affording a bearing for a stud at the end of the roller, one holder in its box-like portion being slotted to receive the polygonal stud of the roller springmechanism and the other holder in its boxlike portion having a bearing for the usual end-stud rigidly connected with the roller; substantially as set forth.

6. In combination with a window-casing, shade-roller holders therefor each comprising a metal plate having upper and lower arms between a stop-bead and a side of the casing, upper and lower flanges at said arms engaging the edge of the stop-bead, an upper member hooked over the upper end of said stop-bead and an inwardly extending plate-

section having upper and lower box-like portions affording bearings for the studs at the corresponding ends of the rollers, one holder in its box-like portions being slotted 35 to receive the polygonal studs of the roller spring-mechanisms and the other holder in its box-like portions having bearings for the usual end-studs rigidly connected with the rollers; substantially as set forth.

7. In combination with a window casing, shade roller holders therefor each comprising a metal plate having an arm between a stop-bead and a side of said casing, a member hooked on the end of said stop-bead and an inwardly extending plate section having a box-like portion affording a bearing for a stud at the end of the roller, one holder in its 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, and the other holder in its box-like portion having a bearing for the usual end stud rigidly connected with the roller; substantially as set forth.

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Signed at New York city, in the county of New York and State of New York, this 1st day of March A. D. 1910.

LOUIS F. WEIHER.

Witnesses:

CHAS. C. GILL, ARTHUR MARION.