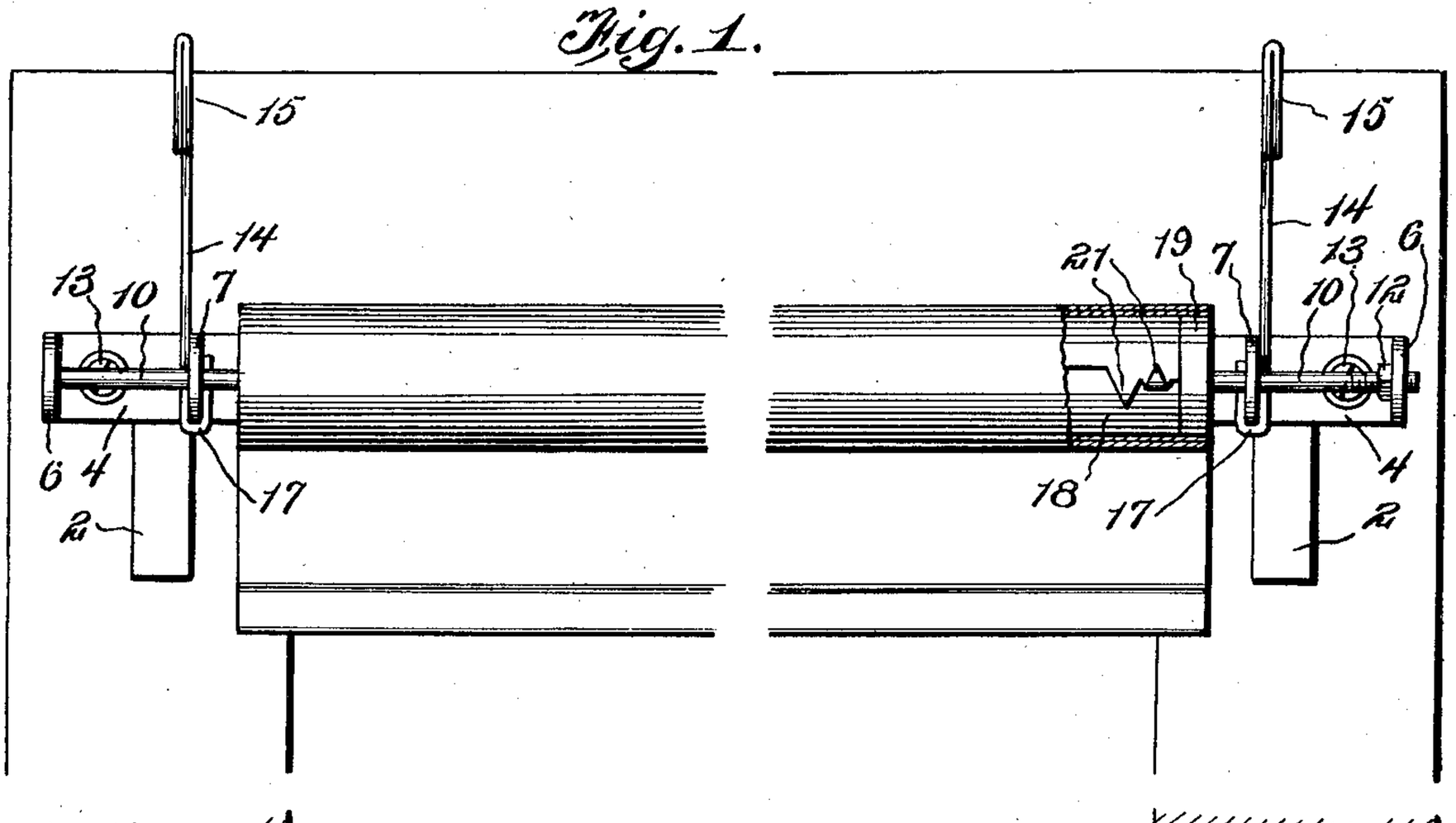
No. 891,053. PATENTED JUNE 16, 1908.

R. F. ESPIG.

SHADE ROLLER AND CURTAIN POLE SUPPORT.

APPLICATION FILED NOV. 11, 1907.

Fig. 1.



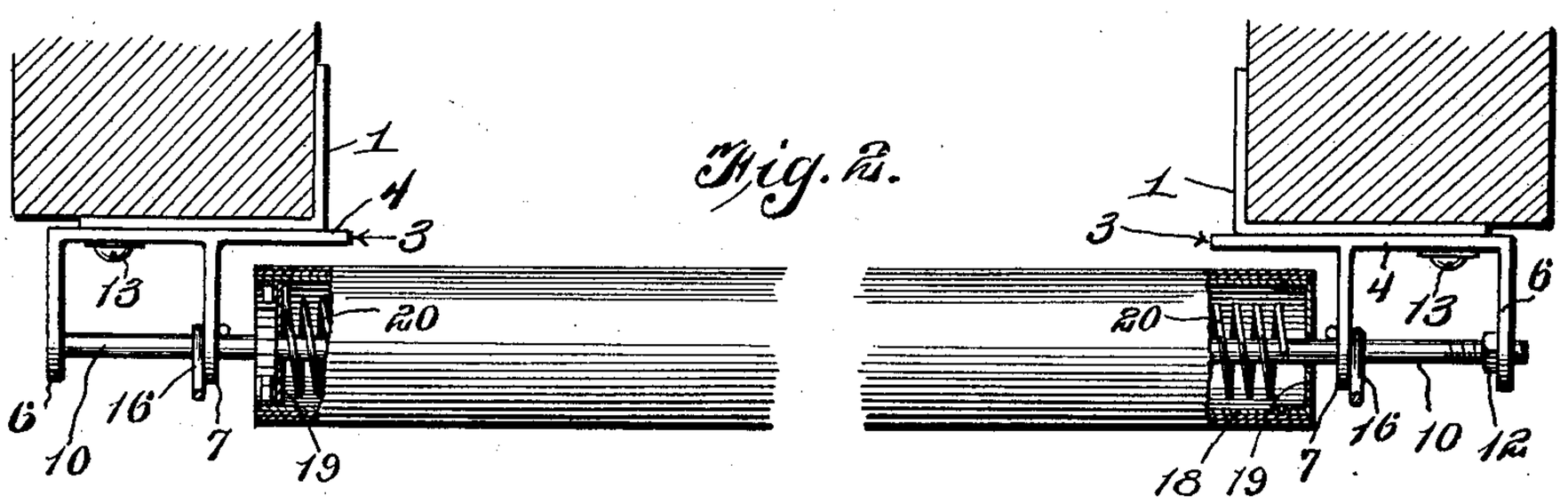


Fig. 2.

Fig. 4.

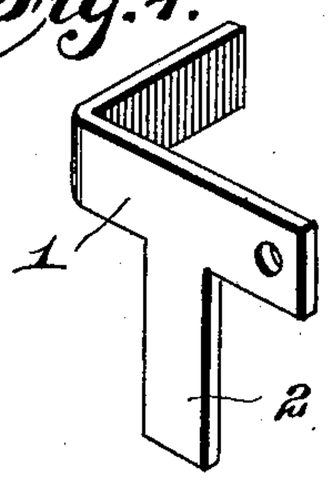


Fig. 3.

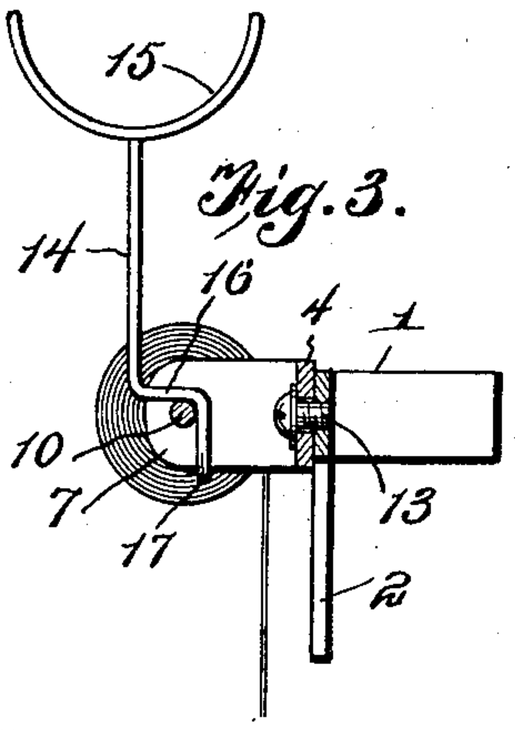
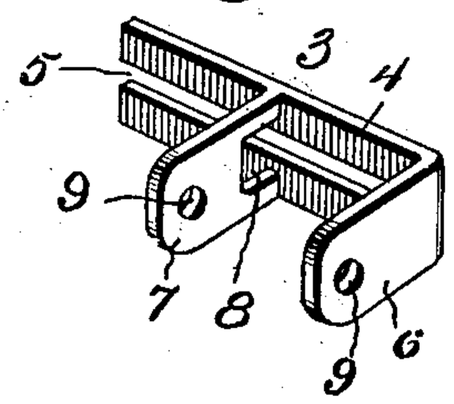


Fig. 5.



Witnesses

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SHADE-ROLLER AND CURTAIN-POLE SUPPORT.

No. 891,053. Specification of Letters Patent. Patented June 16, 1908.

Application filed November 11, 1907. Serial No. 401,732.

To all whom it may concern:

Be it known that I, ROBERT F. ESPIG, a citizen of the United States, residing at Pittsfield, in the county of Berkshire and State of Massachusetts, have invented certain new and useful Improvements in Shade-Roller and Curtain-Pole Supports; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in shade roller and curtain pole supports.

The object of the invention is to provide a support of this character which may be readily secured to a window frame without the use of nails, screws, or analogous devices.

With this object in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be hereinafter described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a front view of a portion of a window frame showing the application of the invention thereto; Fig. 2 is a horizontal sectional view of the window frame showing a top plan view of the invention applied thereto; Fig. 3 is a vertical cross sectional view through one end of the device; Fig. 4 is a detail perspective view of one of the window frame clamping plates; and Fig. 5 is a similar view of one of the adjusting brackets.

In the embodiment of the invention I provide two right-angularly shaped window frame clamping plates 1, which are adapted to be engaged with the inner opposite corners of the window frame. On the portion of the plates which engage the outer side of the window frame, are formed downwardly projecting bracing lugs, 2. Adapted to be slidably engaged with the clamping plates 1 are adjustable supporting brackets, 3, each of which consists of a base plate, 4, having formed therein a longitudinally disposed slot, 5, which opens through the inner end of the base plate, 4, as shown. On the outer end of the base plate 4 is formed a right-angular outwardly projecting ear, 6, while on the plate 4 near the inner end thereof, is formed a right-angular outwardly projecting ear, 7, said ear, 7, being provided on its inner end with a notch, or recess, 8, which is arranged over the slotted portion of the base plate for a purpose which will hereinafter appear.

The ears 6 and 7 of the brackets 3 are provided with alined apertures, 9, through which is adapted to be inserted a combined clamping and shade roller supporting rod, 10, one end of which is rigidly secured in the apertures of the ears 6 and 7 of one of the brackets, while the opposite end of the rod is loosely engaged with the apertures in the ears 6 and 7 of the opposite bracket 3, thus permitting the bracket on this end of the rod to move or slide freely thereon. The end of the rod 10 which loosely engages the bracket 3 is threaded for a suitable distance, and on the threaded portion is adapted to be screwed a clamping nut, 12, which is adapted to be screwed into engagement with the inner side of the outer ear, 6, of the adjacent bracket, 3, thus forcing said bracket outwardly toward the end of the rod.

In the portion of the clamping plates 1 which engages the outer side of the window frame is arranged a clamping screw, 13, which is adapted to be engaged by the slot in the base plate, 4, of the bracket, 3, and between the head of the screw, 13, and the adjacent face of the base plate, 4, is arranged a washer, which, when the clamping screw 13 is turned inwardly, will be clamped into tight engagement with the base plate, thereby clamping the same against the outer side of the clamping plates 1, and thereby holding the brackets 3 in an adjusted position on said clamping plates.

In the application of the device to a window frame, the brackets 3 are adjusted on the clamping plates 1 and the roller supporting rod 10 to bring said plates to a position where they will engage the inner corners of the window frame, after which the nut 12 on the rod 10 is screwed outwardly, thereby forcibly engaging the clamping plates 1 with the inner sides of the window frame to a sufficient degree to support the shade roller and curtain pole.

On the rod 10 between the ears 7 of the oppositely disposed brackets 3 is arranged the shade roller, which may be of the usual or any preferred construction. Arranged on the rod 10, adjacent to the ears 7, are curtain pole brackets, 14, said brackets being preferably formed from a single wire rod bent at its upper end to form a curved or segmental-shaped pole support, 15, said rod being bent at its lower end to form an offset, 16, which is adapted to engage the rod 10 and with a hook-shaped portion, 17, which is adapted to be engaged with the lower edge of

the ears 7, thus supporting the pole bracket in position and permitting the same to be readily removed when desired.

In connection with the device I employ a hollow shade roller, 18, which is preferably formed of sheet metal, having on its opposite ends caps, 19, on one end of which are arranged the usual pawls or dogs which hold the roller to support the shade in its adjusted positions. The roller is revolubly mounted on the rod, 10, and in the roller and around said rod is arranged a coiled spring, 20, one end of which is secured to the roller and the other end to the rod, 10. On the outer side of the roller are arranged fastening barbs, 21, by means of which the inner end of the shade is secured to the roller. The barbs 21 are preferably formed from the metal of which the roller is constructed.

Having described my invention, what I claim as new and desire to secure by Letters-Patent, is:

1. A shade roller and curtain pole support comprising a pair of window frame clamping plates, adjusting brackets slidably mounted on said clamping plates, a combined plate clamping and shade roller supporting rod, and means whereby said rod is adapted to force said clamping plates into tight engagement with the sides of the window frame, substantially as described.

2. A shade roller and curtain pole support, comprising a pair of window frame clamping plates, adjusting brackets slidably mounted on said plates, a combined plate clamping and shade roller supporting rod threaded at one end and secured at its opposite end to one of said brackets, and a clamping nut on said threaded end of the rod to engage the opposite bracket and thereby force said clamping plates into tight engagement with the sides of the window frame, substantially as described.

3. A shade roller and curtain pole support comprising a pair of window frame clamping plates, adjusting brackets slidably mounted on said clamping plates, a shade roller supporting rod adapted to be engaged with said adjusting brackets, and means on said rod to force said clamping plates into engagement with the sides of a window frame, substantially as described.

4. A shade roller and curtain pole support comprising a pair of window frame clamping plates, adjusting brackets having formed therein longitudinally disposed slots, clamping screws arranged in said window frame clamping plates and adapted to be engaged by the slotted portion of said adjusting brackets whereby the latter are held in adjusted position on said clamping plates, a shade roller supporting rod rigidly connected at one end to one of said brackets and loosely engaged at its upper end with the opposite bracket, screw threads formed on one end of said rod, and an adjusting nut adapted to be screwed outwardly on said threaded end of the rod to move the adjacent bracket and clamping plate outwardly, thereby rigidly engaging the latter with the side of the window frame, substantially as described.

5. A shade roller and curtain pole support comprising a pair of right-angularly formed window frame clamping plates, outwardly projecting brace lugs on said plates, longitudinally slotted adjusting brackets, means to adjustably connect said brackets with said clamping plates, right-angularly formed outwardly projecting ears on said brackets, said ears having formed therein alined apertures, a shade roller supporting rod rigidly connected at one end to the ears of one of said brackets and slidably engaged at its opposite end with the ears of the opposite bracket, an adjusting nut adapted to be screwed on and off one end of said rod and into engagement with the ear of one of said brackets, whereby the same is adjusted to rigidly engage said clamping plates with the window frame, and curtain pole brackets adapted to be engaged with said rod and the adjusting brackets arranged thereon, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ROBERT F. ESPIG.

Witnesses:
FRANK A. FENTNER,
JOHN F. MEYERS.