

(No Model.)

J. W. DUNCAN.
ATTACHMENT FOR WINDOW SHADES.

No. 563,658.

Patented July 7, 1896.

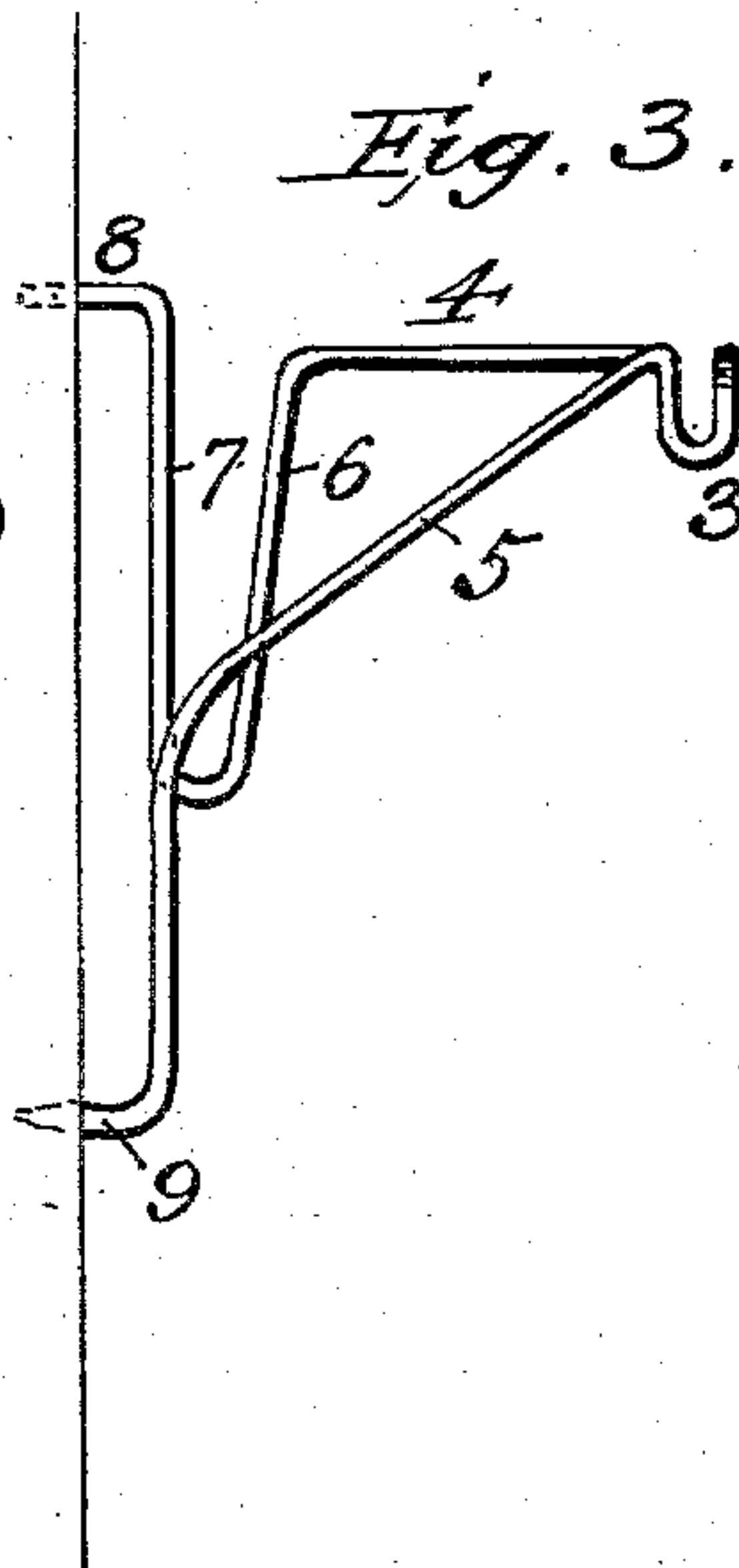
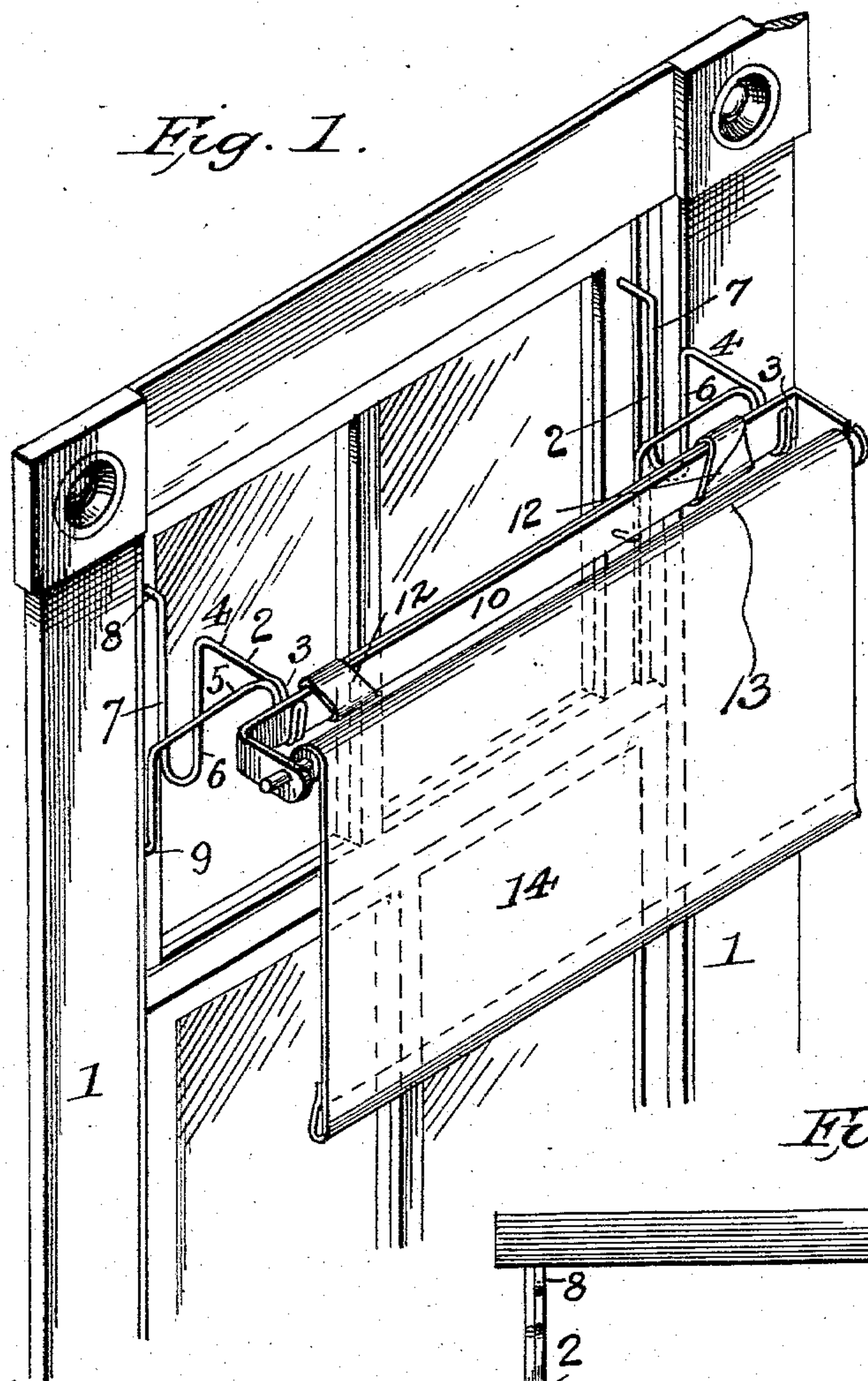


Fig. 2.

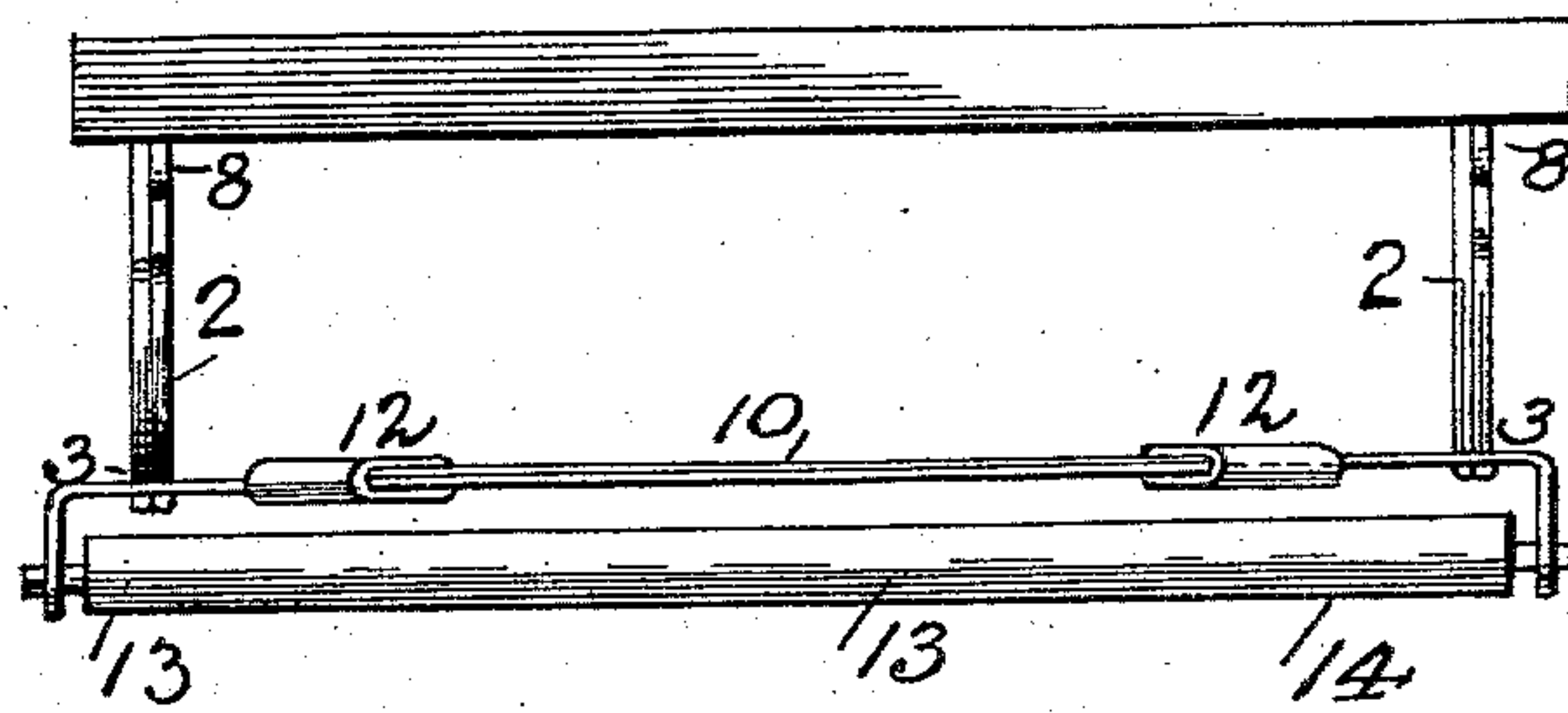
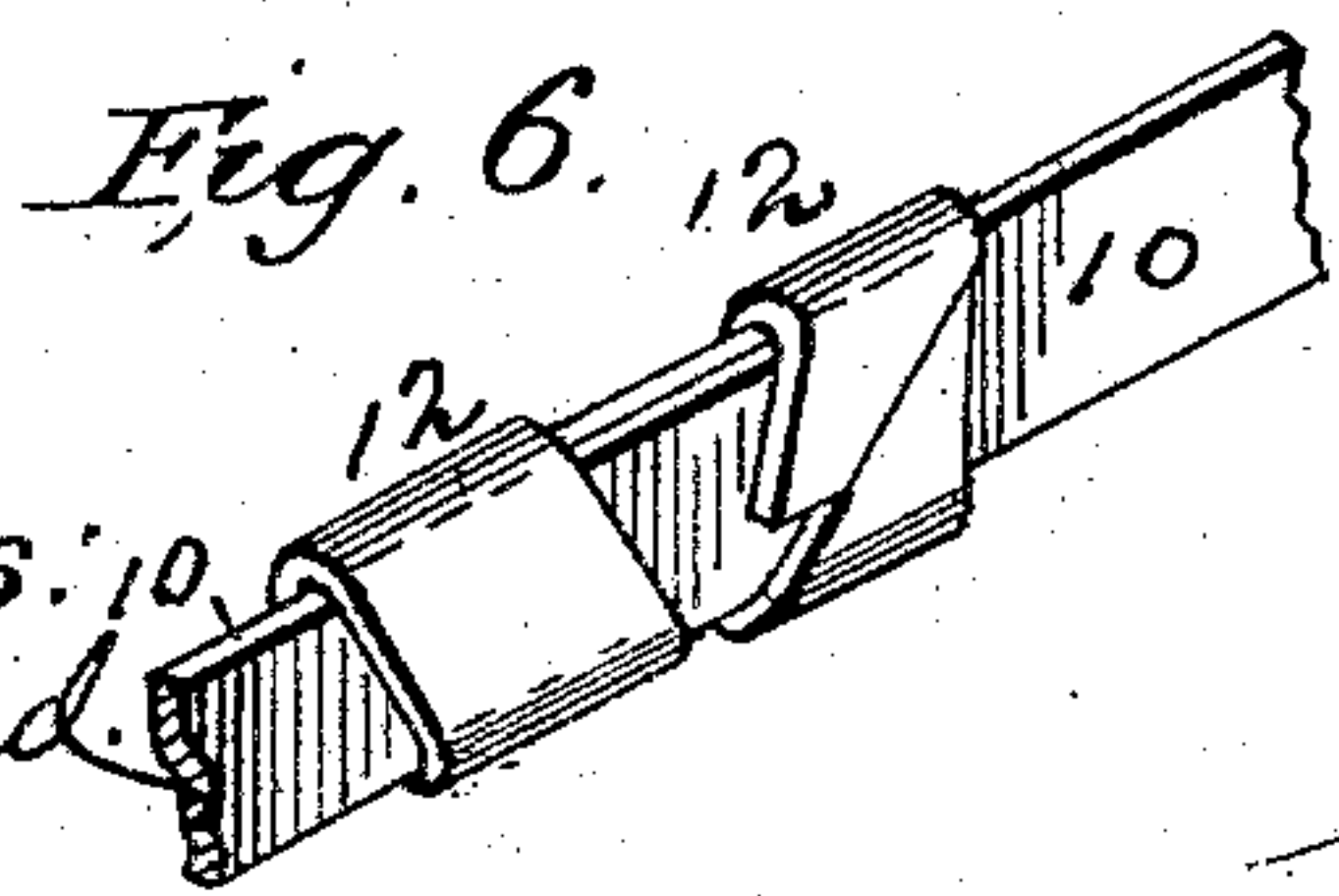
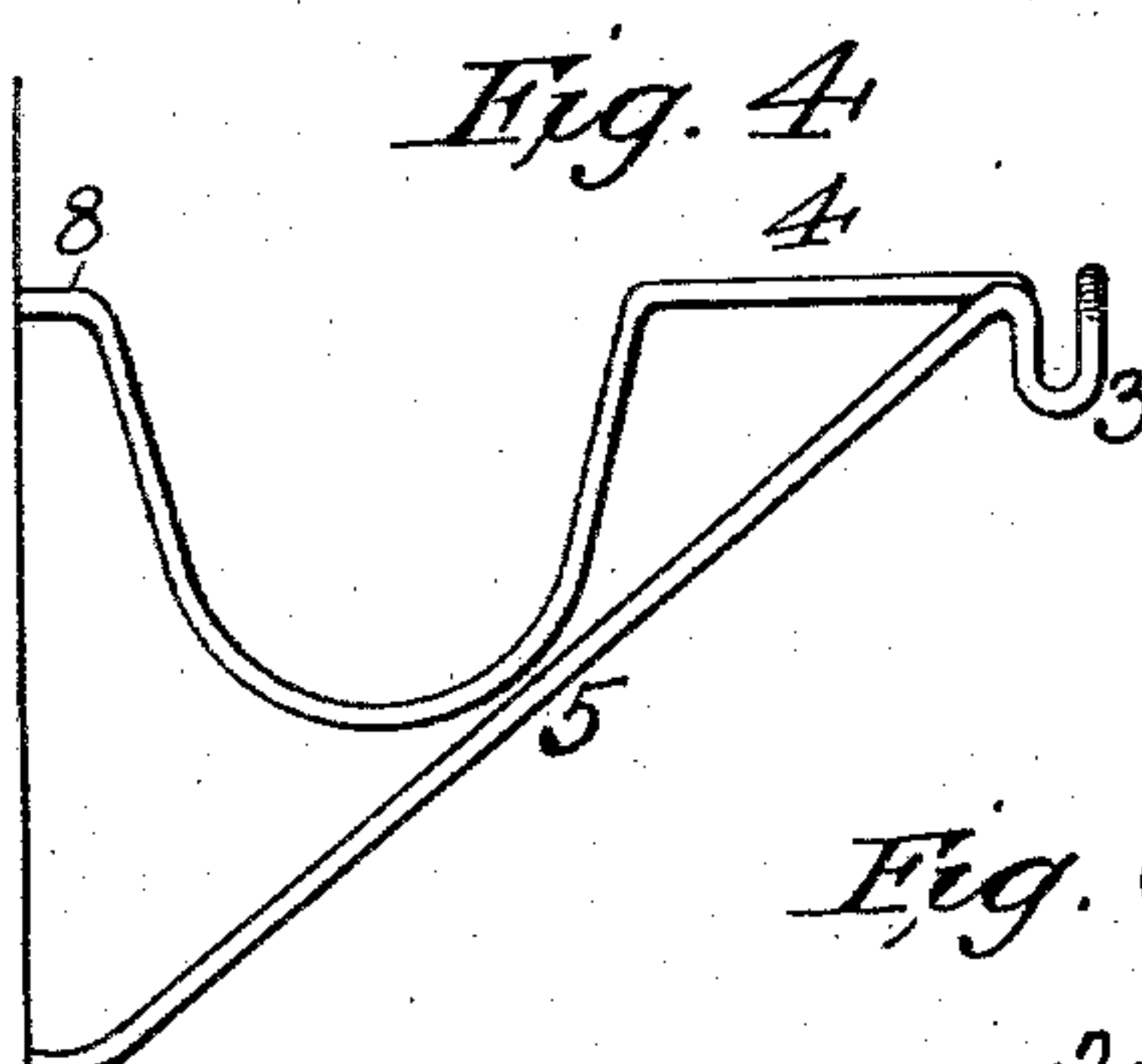


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOHN W. DUNCAN, OF ADRIAN, MISSOURI.

ATTACHMENT FOR WINDOW-SHADES.

SPECIFICATION forming part of Letters Patent No. 563,658, dated July 7, 1896.

Application filed February 28, 1896. Serial No. 581,165. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. DUNCAN, a citizen of the United States, and a resident of Adrian, in the county of Bates and State of Missouri, have invented certain new and useful Improvements in Attachments for Window-Shades; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to hangers or holders for shades for window-sashes, and its object is to provide an improved construction of the same, whereby they may be secured to the upper sash of a window-frame, so that the latter can be lowered for ventilating purposes without the shade interfering with the free circulation of air between the top of the sash and the window-frame, and also so constructed that they may be adjusted to accommodate them to window-frames of varying depths.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a window-frame and the sash thereof, showing the upper frame provided with my improved shade-holder. Fig. 2 is a plan view of the same. Fig. 3 is a side elevation of one of the hangers. Fig. 4 is a similar view showing the same extended away from the window-frame. Fig. 5 is an elevation of one of the adjustable shade-supporting bars, showing the same before the end is bent to form the loop. Fig. 6 is a detail perspective view showing the inner ends of the adjustable sash-supporting bars bent to form loops and engaging with each other.

In the said drawings the reference-numeral 1 designates a window-frame provided with an upper and a lower sash which may be of any ordinary or suitable construction.

Secured to the side rails of the upper sash, near the upper ends thereof, is a bracket or hanger 2, consisting of a single piece of wire doubled upon itself at the center, and then

bent to form a hook 3, with which the shade-supporting bars, hereinafter described, engage. The said wires then separate, forming two arms 4 and 5, the upper one of which extends rearwardly in a horizontal line, and then downwardly and upwardly, forming vertical arms 6 and 7, the latter of which has its end bent at a right angle, forming a lug 8, which is driven into the side rail of the sash. By contracting or bringing said lugs nearer to each other before driving them into the sash-rail the hooks will be forced away from the sash, so as to accommodate the same to window-frames of greater depth. A reverse movement will draw the hooks toward the window-sash. The lower arm 5 extends downwardly and rearwardly in a curved line, crossing the arms 6 and 7 near their lower ends, and has its lower end bent at approximately a right angle, forming a lug 9, which is driven into the side rail of the sash below the upper lug 8.

The numeral 10 designates adjustable shade-supporting bars consisting of rectangular metal strips having their outer ends bent outwardly at right angles, one of which is formed with an aperture or hole to receive the journal of the shade-roller, while the other is formed with a longitudinal slot with which engages the angular end of the rod with which the roller-spring is connected. The inner ends of said bars are beveled, as seen in Fig. 5, and then bent over the opposite bar on the dotted lines *a b c*, forming a loop 12. These loops engage with the bars, so that the latter can be adjusted to suit different widths of sash.

The numeral 13 designates an ordinary spring-shade roller, and 14 the shade, which may be of any ordinary or suitable construction.

In use the hangers or brackets project far enough beyond the sash to allow the shade when pulled down to fall down in front of the lower sash, if desired, while the space between the upper sash and the top of the window-frame is unobstructed, allowing a free passage of the air.

The object of the elongated loops formed by arms 6 and 7 is to allow the hook 3 to be

forced away from or toward the window, by means of the arm 5, thus regulating the distance therefrom.

By the peculiar construction of the brackets 5 or hangers they possess greater strength and rigidity, while very light.

Having thus fully described my invention, what I claim is—

1. The combination with the upper sash of 10 a window-frame, and the extensible and contractible hangers secured thereto, projecting beyond the under side thereof, each consisting of a single piece of spring-wire doubled over upon itself, near the center and bent 15 into a hook and then separated forming two arms, the upper one of which extends horizontally outward and is then bent downwardly and upwardly forming an elongated loop, and the end bent at an angle forming a lug 20 and the other or lower arm curved downwardly and its end bent at angle, of the adjustable shade-supporting bars, having their

inner ends beveled and bent over as shown, to form loops, substantially as and for the purpose specified. 25

2. As an improved article an adjustable window-shade bracket or hanger consisting of a single piece of wire doubled over upon itself at or near the center and bent into a hook, and then separated forming two arms, 30 the upper one of which extends horizontally outward and is then bent downwardly and upwardly forming an elongated loop and its end bent at a right angle forming a lug and the other or lower arm curved downwardly and rearwardly and its end bent at a right angle; substantially as described. 35

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

JOHN W. DUNCAN.

Witnesses:

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A. B. HALLOWAY.