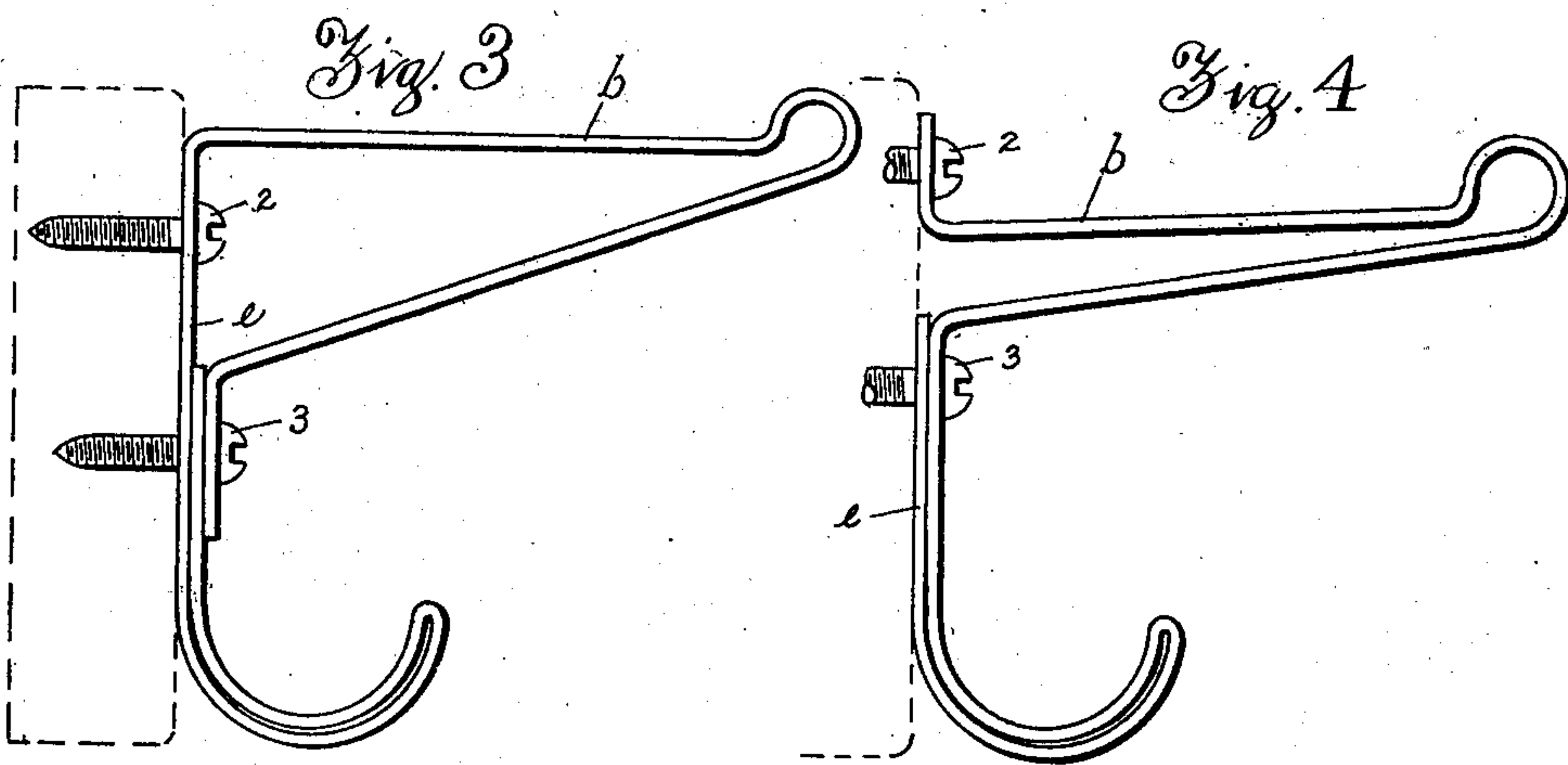
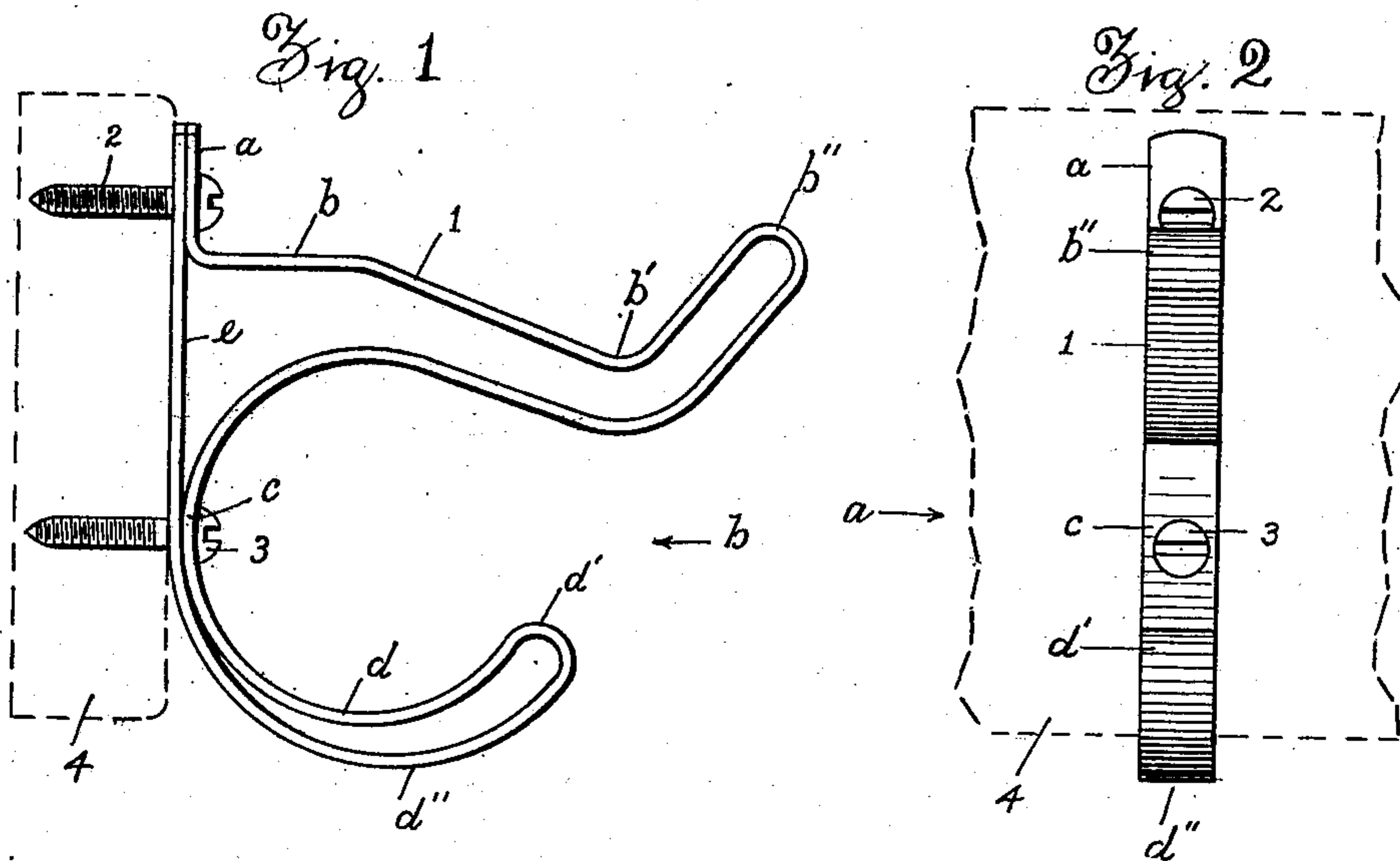


No. 891,538.

PATENTED JUNE 23, 1908.

L. P. GREENMAN.
HOOK.

APPLICATION FILED JAN. 17, 1907.



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HOOK.

No. 891,538.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LAWRENCE P. GREENMAN, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Hooks, of which the following is a specification.

My invention relates to hooks, and particularly to that class of hooks which are made from a single piece of metal, with an upper hook, and a lower hook.

The object of my invention is to improve upon the ordinary construction of a hook of the class referred to, and I preferably make my improved hook of wire, or flat stock, secured in position by two attaching devices, such as screws, made separate from the hook, and located in vertical alinement with each other, and in the same vertical plane as the upper hook and the lower hook; and preferably provide an upwardly extending attaching end for the hook, which end extends in a vertical plane and above the plane of the upper side, or main portion of the upper hook.

By my improved construction of a hook, I provide a very strong and durable hook, of neat and attractive appearance, which can be very securely attached to the supporting wall or surface, and by means of the upper attaching end extending above the plane of the hook proper, I obtain a very secure attachment for the hook at its upper part, and prevent it from moving or being detached by reason of the hook being heavily weighted.

My invention consists in certain novel features of construction of my improvements, as will be hereinafter fully described.

Referring to the drawing:—Figure 1 is a side view of a hook embodying my improvements, showing a detached portion of the support by broken lines, and looking in the direction of arrow *a*, Fig. 2. Fig. 2 is an outer end or edge view of the hook shown in Fig. 1, looking in the direction of arrow *b*, same figure. Fig. 3 shows a modified construction of the hook shown in Fig. 1, and, Fig. 4 shows another modified construction of the hook shown in Fig. 1.

In the accompanying drawing, Figs. 1 and 2, is shown a hook 1 embodying my improvements, in this instance made of flat wire, or flat stock, in one piece. The wire or stock is bent or formed preferably in the shape shown, having one end *a* extending in a vertical plane above the plane of the main portion

of the upper hook *b*, and at substantially right angles thereto, to form a part of the upper attaching end of the hook, and provided with an opening therethrough to receive an attaching device, as a screw 2.

The wire forming the upper hook *b*, may be bent as shown in Fig. 1, to form an angular recess or depression *b'* on the upper side thereof, and then rounded to form the point or end *b''* of the upper hook, and then bent downwardly and inwardly to extend, preferably at a little distance from the upper edge of the upper hook *b*, to form the lower edge thereof, and then bent downwardly to extend in substantially the same vertical plane as the upper end *a* of the wire, and form one part *c* of the lower attaching part of the hook, which part has a hole therethrough to receive an attaching device, as a screw 3. From the lower attaching part *c*, the wire is bent downwardly and outwardly, preferably on a curve, to form the upper edge of the lower hook *d*, and is then bent upwardly and downwardly to form the point *d'* of the lower hook *d*, and then bent downwardly and inwardly, and preferably at a little distance from the upper edge to form the lower edge *d''* of the lower hook *d*, and then bent upwardly, to extend back of and in alinement with the attaching portion *c*, and preferably back of the upper end *a*, in a substantially vertical plane, to bear against the support 4, shown by broken lines, and in vertical alinement with the vertical plane of the upper hook *b* and the lower hook *d*, and the ends of the wire being superimposed. The vertically extending portion *e* has an opening therethrough for the attaching screw 3, and also an opening therethrough for the attaching screw 2.

In Fig. 3 is shown a modified construction, and a different shaped hook. In said Fig. 3, the upper attaching end *a* of the wire, Fig. 1, does not extend above the main portion of the upper hook *b*, but the hook is attached to its support by a screw or other device 2, which extends within the loop formed by the upper edge and the lower edge of the upper hook. The two ends of the wire are superimposed, or overlap each other and extend in a vertical plane, to form, with the vertical portion of the hook, corresponding to the vertical portion *e*, shown in Fig. 1, three thicknesses, having openings therethrough to receive the attaching screw 3.

Fig. 4 shows another modified construction of the hook shown in Fig. 1, and a differ-

ent shaped hook. In said Fig. 4, the vertical portion of the attaching part of the hook, corresponding to the portion *e* in Fig. 1, does not extend above the upper edge of the upper hook *b*, to form a double attaching part for the upper screw 2, as shown in Fig. 1, but only extends as far as the lower edge of the upper hook.

The screws or attaching devices are preferably located, one intermediate the upper hook and lower hook, and the other above the upper hook, but the upper attaching device may be within the loop of the upper hook, or above the lower side of the upper hook.

I have shown in the drawing, and preferably use flat wire or stock, but if preferred I may use wire of different shapes in cross section, for instance oval, round, half round, or other shape.

I have shown and described herein my improvements, as a hook, but it will be understood that it may be used for other purposes, for example, two of the devices may be used as brackets or supports for rods, to form a towel rack, etc.

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

1. A hook formed from a single piece of wire or flat stock, shaped to form an upper hook and a lower hook, and beginning and

ending at the same part of the hook, the ends being superimposed, and the hook adapted to be secured in position by two screws, or attaching devices in vertical alinement with the hook.

2. As an improved article of manufacture, a hook made from a single piece of wire, or flat stock, shaped to form an upper hook and a lower hook, and beginning and ending at the same part of the hook, the ends of the wire or stock being superimposed, and the hook adapted to be secured in position by two screws or attaching devices, made separate from the hook.

3. A hook formed from a single piece of wire or flat stock, shaped to form an upper hook and a lower hook, and beginning and ending at the same part of the hook, the wire or stock superimposed near the ends, and said hook adapted to be secured in position by an attaching device or devices, made separate from the hook.

4. A hook made of wire or flat stock, shaped to form an upper hook and a lower hook, the lower hook looped upon itself, and an attaching device passing through both strands of the lower hook.

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