

(No Model.)

W. H. BOGGS.
WIRE FENCE STAY.

No. 561,534.

Patented June 2, 1896.

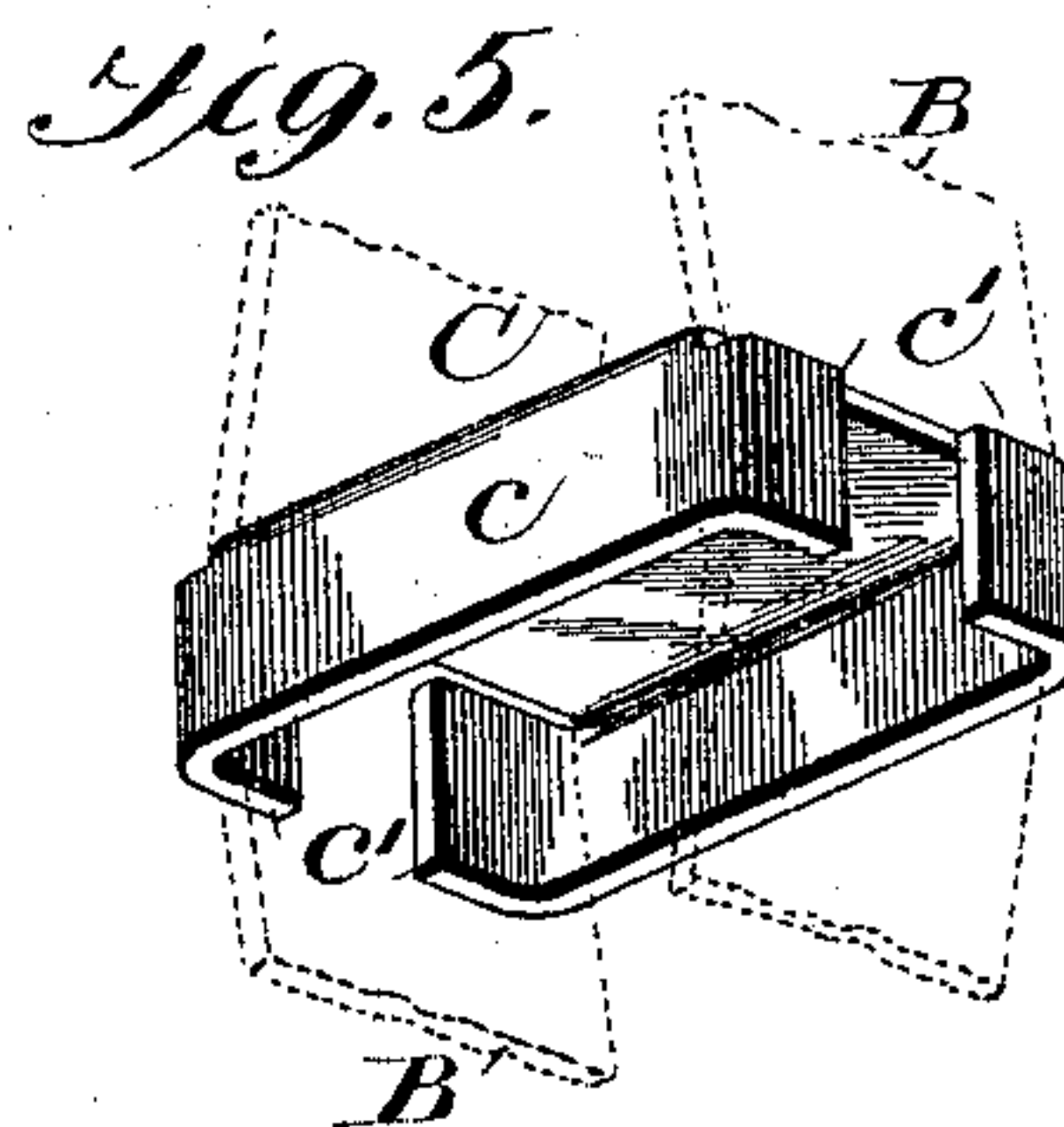
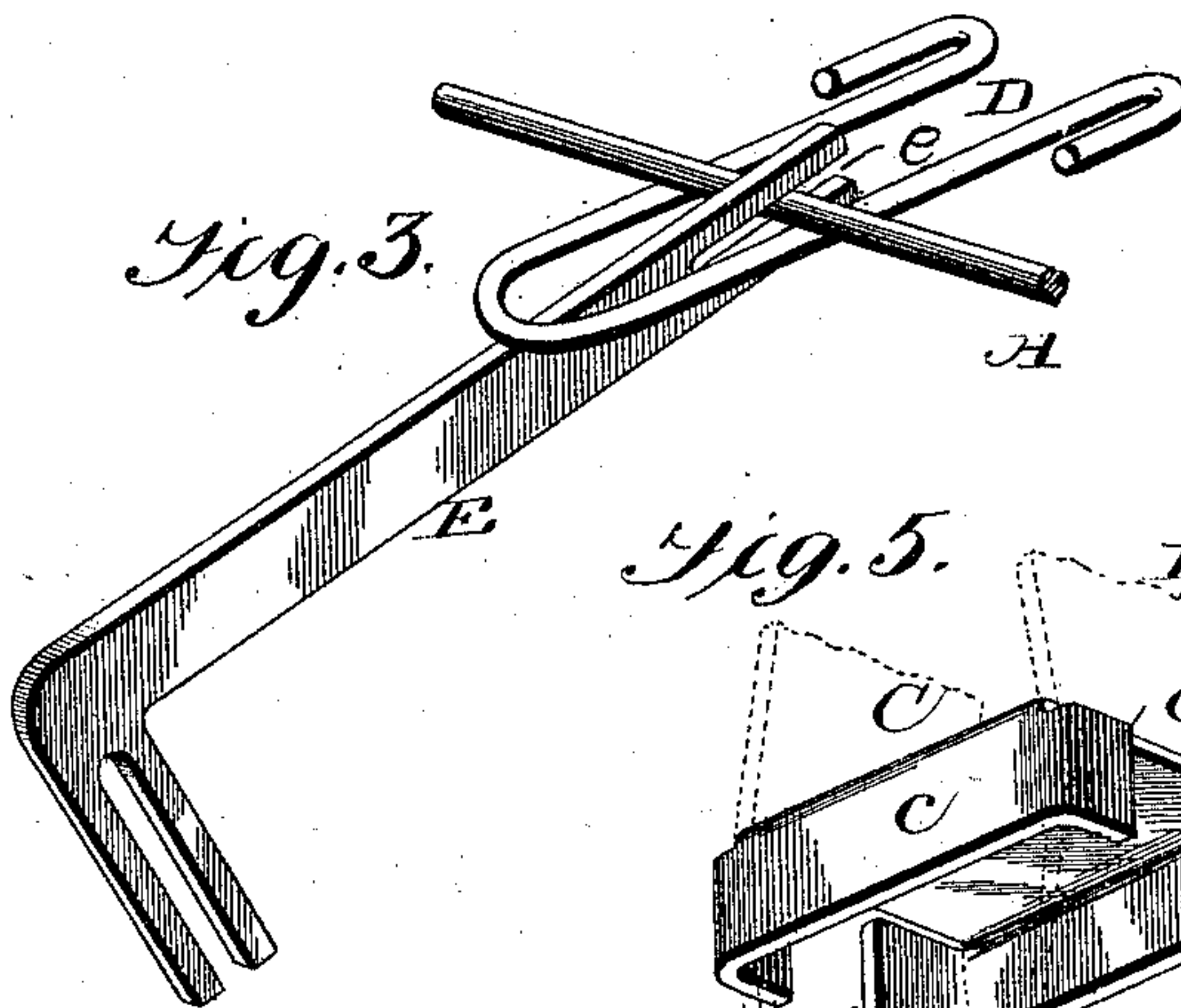
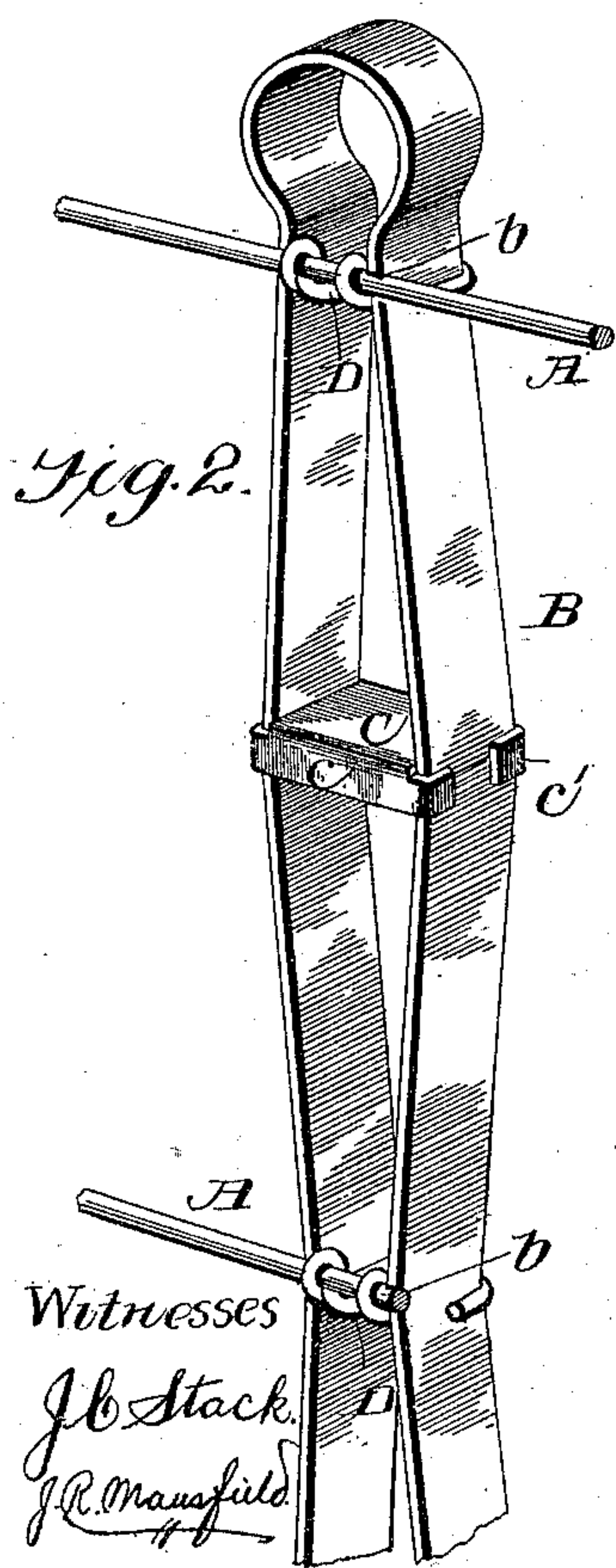
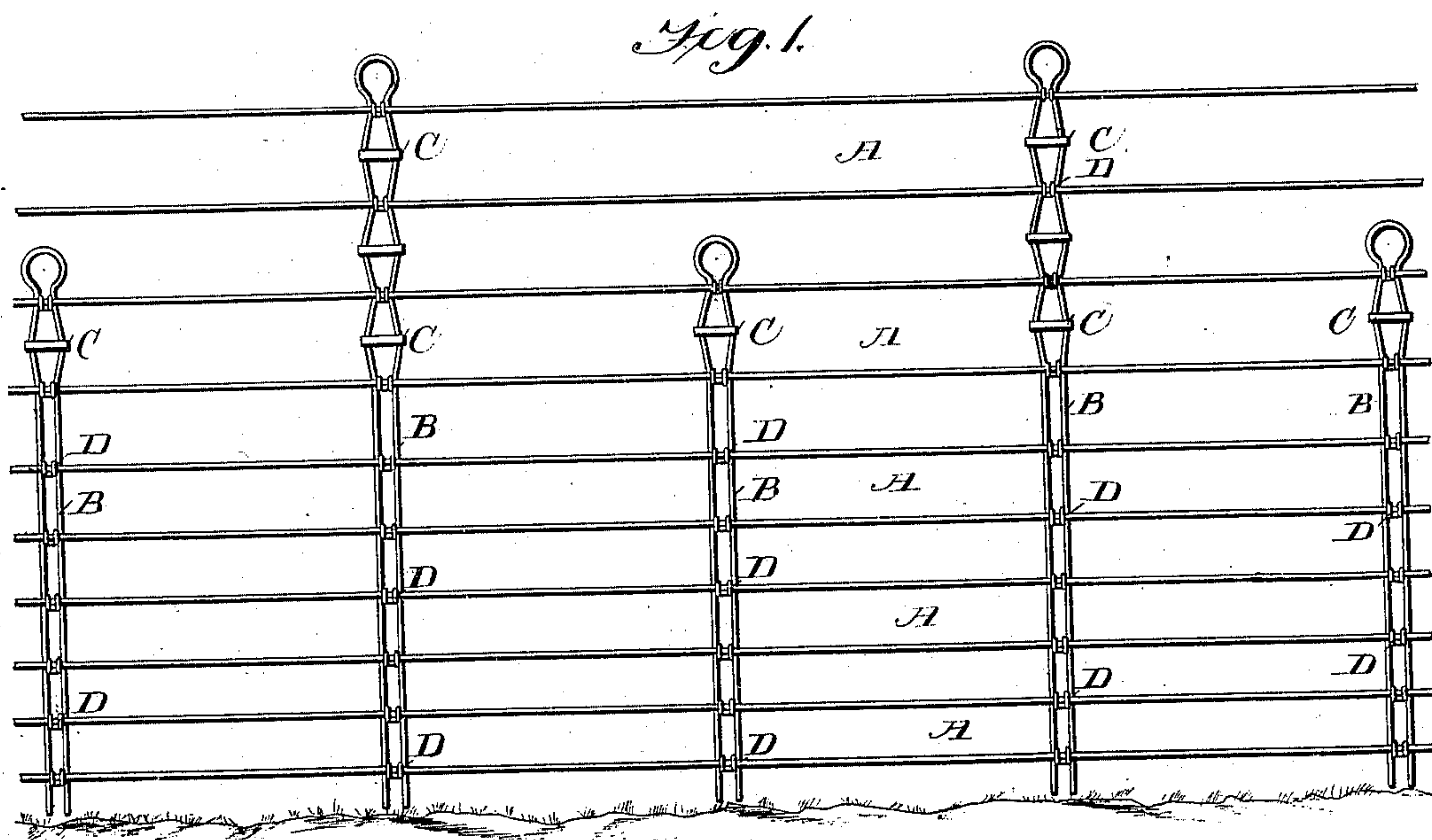


Fig. 4.



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UNITED STATES PATENT OFFICE.

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WIRE-FENCE STAY.

SPECIFICATION forming part of Letters Patent No. 561,534, dated June 2, 1896.

Application filed February 13, 1896. Serial No. 579,154. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BOGGS, of Covington, in the county of Miami and State of Ohio, have invented certain new and useful Improvements in Wire-Fence Stays; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My present invention relates to improvements in wire fences, and more particularly to the stays and their fastening devices employed in the construction thereof; and my object is to provide an improved construction of such stays and fastenings whereby they may be conveniently and securely held in place without any liability of becoming accidentally disengaged from the horizontal wire strands.

My invention therefore consists in novel details of construction and combinations of parts hereinafter more particularly described, and summarized in the claims hereunto appended.

In the drawings, Figure 1 is a section of a wire fence, showing the stays as applied to horizontal wire strands. Fig. 2 is a detail perspective view of the upper portion of one of the stays, the bottom being broken away. Fig. 3 is a perspective view of one of the tie-fastenings before applying to the wire strands, also showing the manner of using the tool for bending the tie. Fig. 4 is a detail perspective view of the tie-fastening completed. Fig. 5 is a detail under-side perspective view of one of the braces.

In the drawings, the reference-letter A designates the horizontal wire strands, and B the stays.

The stays B are preferably formed of pieces of ordinary hoop or strap iron and are adapted to support the horizontal wire strands at desired intervals intermediate of the posts (not shown) for the purpose of adding to the resisting qualities and durability of the fence.

To form a stay, a piece of strap-iron of proper length is bent centrally upon itself, thus forming a stay having two legs of equal length and about an inch apart, these legs

being notched on one edge, as at *b*, for the reception of the wire strands.

The upper ends of the stays are provided with widening braces C for the purpose of presenting broader surfaces, and they are placed between the double vertical legs of the stays intermediate of the wire strands. I only apply these stay-braces where the wire strands are of the greatest width, and by such construction I obtain a uniform strength and stiffness throughout the distance between the posts, and all the parts being composed of light and stiff material and being securely held in place there would be no liability of the parts becoming disengaged should by accident any unusual strain be exerted thereagainst.

The braces C, which are stamped from any suitable metal, present an H-shaped appearance when in blank form; but after being bent to be applied to the stays they are provided with side flanges *c* and end flanges *c'*. The latter, however, are not bent until the braces are placed in position between the vertical legs of the stays. The points of the stays to which the braces are applied are not formed in the manner illustrated in the drawings prior to the introduction of the braces, but by the braces being applied they assume such appearance, thereby giving a much broader surface to the upper portion of the stays.

The legs of the braces are bound together by the same fastenings which secure the strands thereto, so that spreading of the legs is prevented at these points; but they may be sprung apart between the strands by the braces C, this springing of the braces drawing the strands (between which braces C lie) nearer together and making them more taut.

The U-shaped tie-fastenings D are applied to the stays where the horizontal wire strands intersect and are accordingly bent upon said strands between the vertical legs of the stays. The tie-fastenings are secured in the following manner: The wire strands being placed in position in the notches of the stays the fastening is placed thereunder, but the rear ends of the fastening being hooked in opposite directions to embrace the edges of the stays. The bifurcated end *e* of the fastening-tool E

is placed under the tie and engaged with the wire strand A. The tool is then turned, thus bending the tie around the strand until same is securely held in place in the notches *b*, as clearly shown in Fig. 2.

Slight changes might be made in the details of construction of my invention without departing from the essence thereof, and hence I do not wish to limit myself to the precise details of construction herein shown and described.

The stays, fastenings, and braces can be manufactured at a small cost and the fence constructed without the expenditure of much time and labor.

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

1. The combination in a metallic fence of the type described, of the stays having parallel vertical legs notched for the reception of the wire strands, and tie-fastenings securing the wire strands in the notches, with the braces placed between the vertical legs of the stays, for the purpose of spreading them between the strands, substantially as described.

2. The combination with the strands of a wire fence, and the stays B each formed of a

piece of strap metal bent upon itself and arranged transversely of the strands; with the tie-fastenings securing the stays to the strands and the removable braces as C, inserted between the legs of the braces for the purpose of spreading them intermediate of the strands, all substantially as described.

3. In a wire fence, the combination of the parallel wire strands, the stays, each formed of a piece of strap metal bent upon itself, and notched in one edge for the reception of the strands; the wire tie-fastenings slipped between the legs of the stays and having hooked ends engaging them and bent over the strands to secure them to the stays substantially as described, with the spreading braces C having side flanges *c* and end flanges *c'* whereby they are secured to and between the legs of the braces, intermediate of the strands, for the purpose of spreading the braces, all substantially as described.

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

WILLIAM H. BOGGS.

Witnesses:

JAMES R. MANSFIELD,
DAVID E. MOORE.