

(No Model.)

P. MILES.
WIRE LATH.

No. 429,935.

Patented June 10, 1890.

Fig. 1.

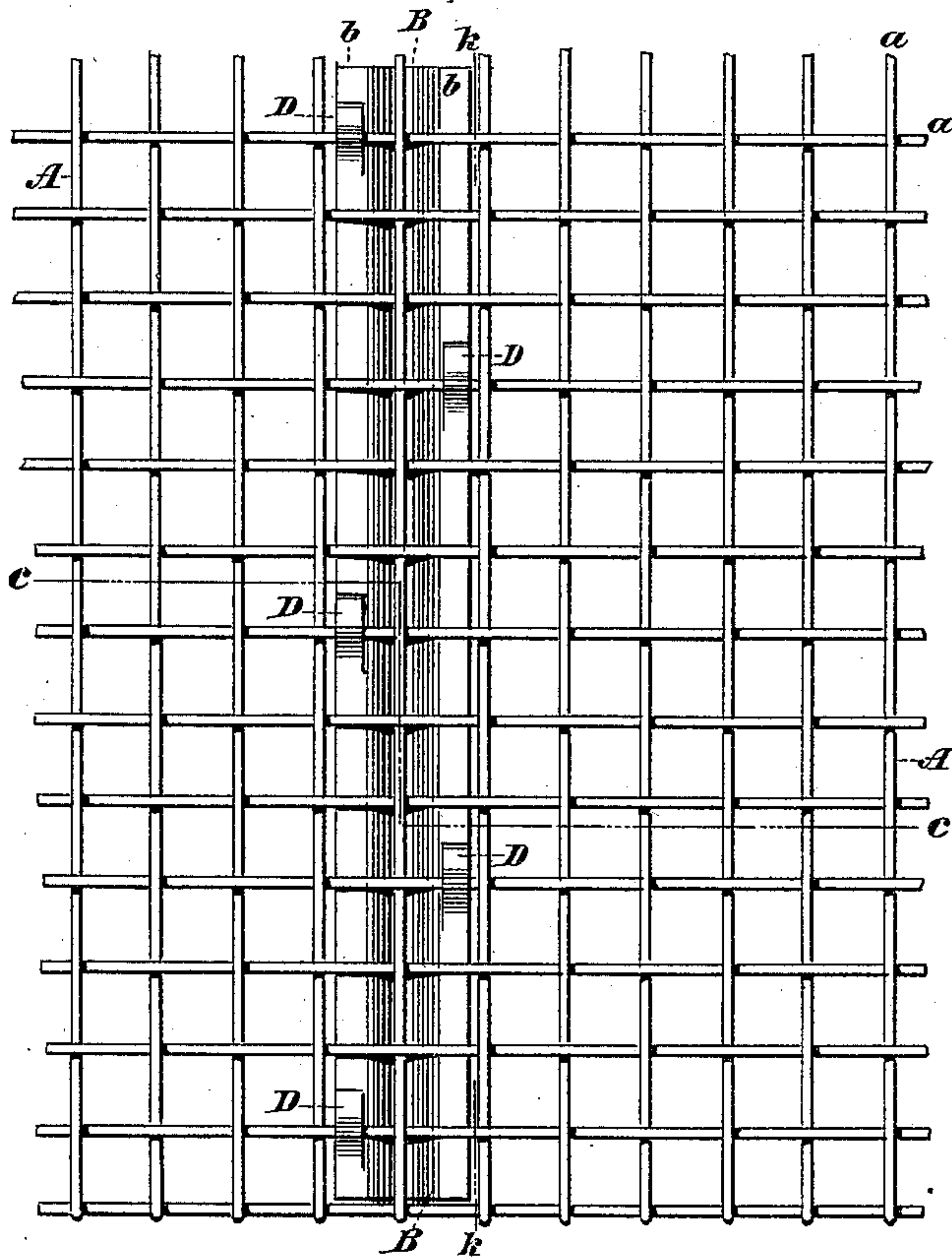


Fig. 2.

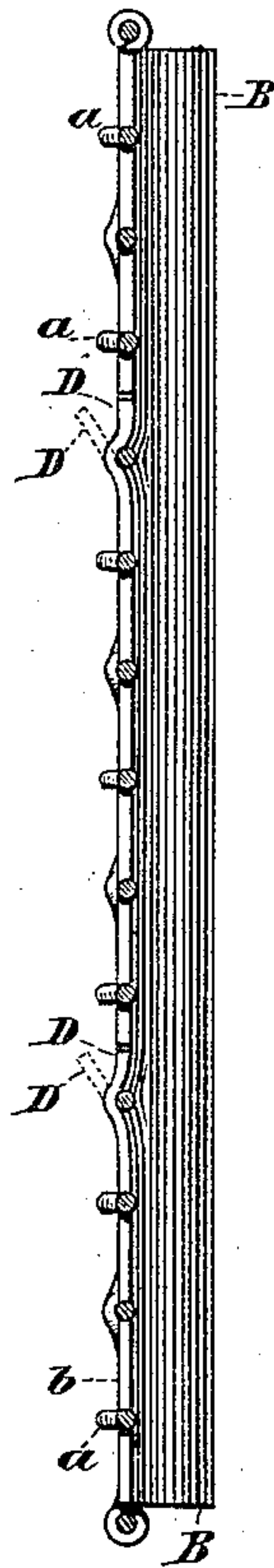


Fig. 3.

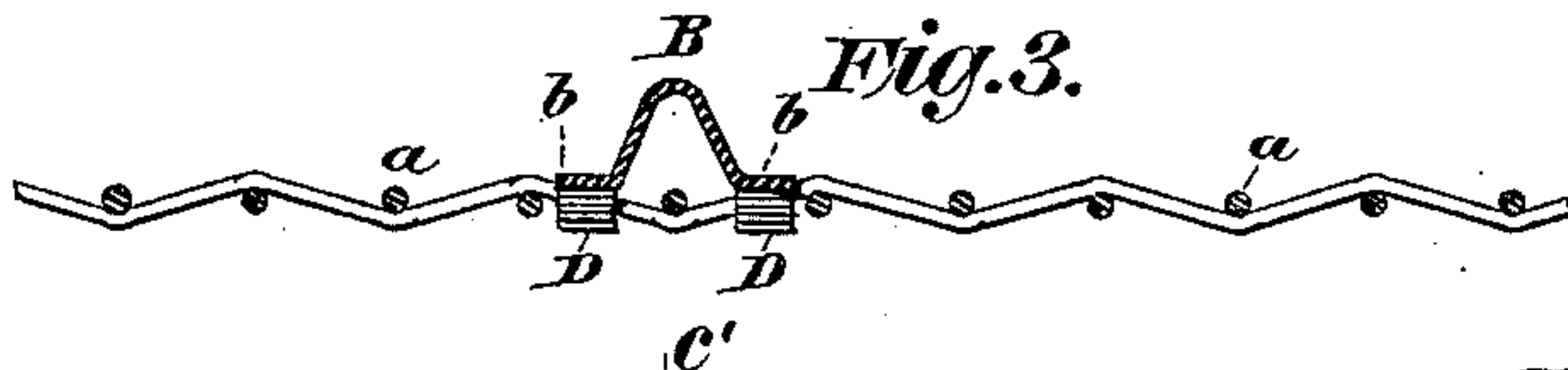


Fig. 4.

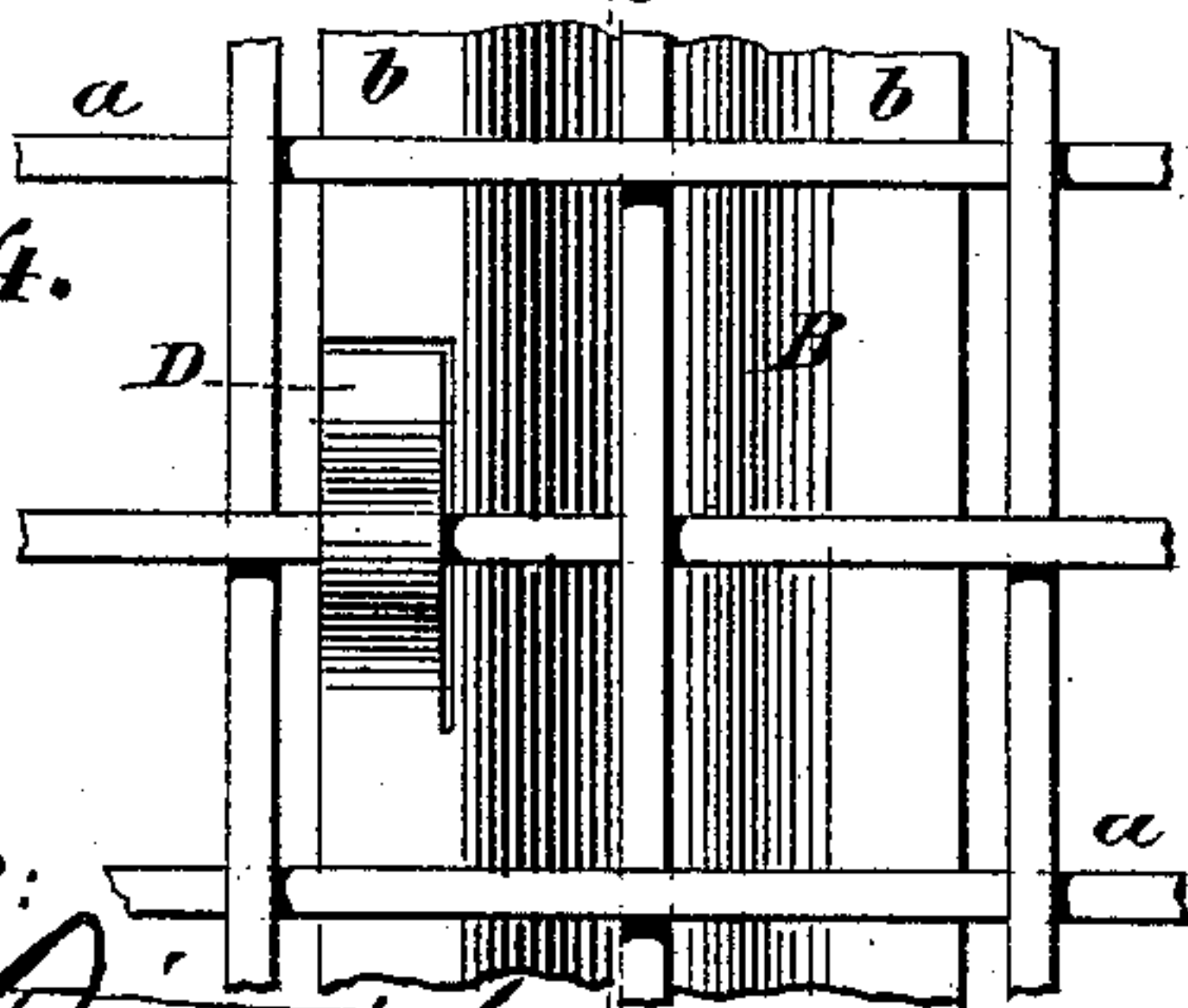
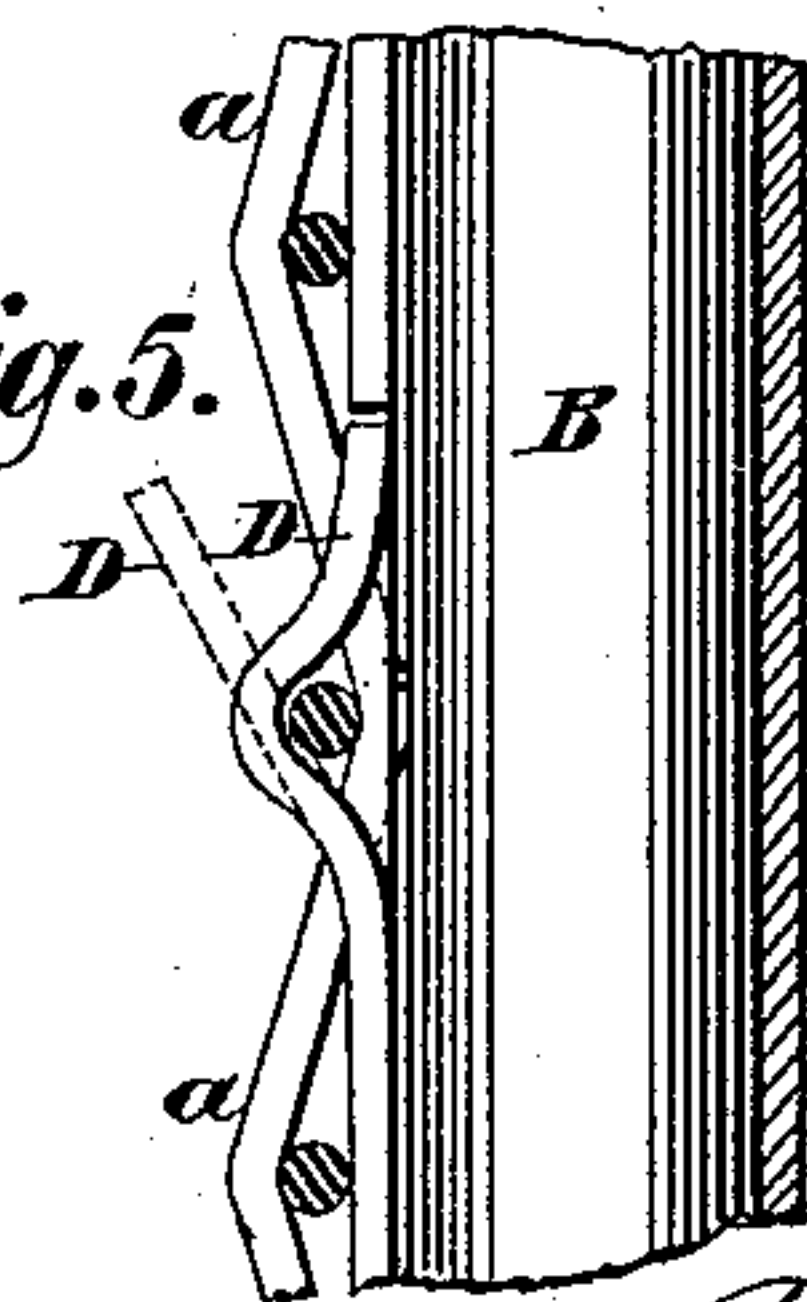


Fig. 5.



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PURCHES MILES, OF BROOKLYN, NEW YORK, ASSIGNOR TO THE CLINTON WIRE CLOTH COMPANY, OF CLINTON, MASSACHUSETTS.

WIRE LATH.

SPECIFICATION forming part of Letters Patent No. 429,935, dated June 10, 1890.

Application filed December 3, 1889. Serial No. 332,369. (No model.)

To all whom it may concern:

Be it known that I, PURCHES MILES, a resident of Brooklyn, Kings county, and State of New York, have invented certain new and useful Improvements in Wire Laths, of which the following is a specification.

Heretofore wire lath, which usually consists of wire-cloth, has been stiffened by bars or strips secured to the lath by metal clips or by weaving in. This stiffening is called "furring." It is expensive to apply the furring or stiffeners to the wire lath by means of clips, because, as far as I am aware, it has always been done by hand.

The object of my invention is to so simplify and improve the connection between the stiffening strips or furring and the wire-cloth as to materially reduce the cost of the wire lath, while improving the whole structure.

The invention consists in the combination, with the wire cloth or lath, of a stiffening strip or piece consisting of a U-shaped bar having flanges and in said flanges lips formed integral therewith and laid along the lath, said lip being folded over a wire of the cloth or lath, whereby the cloth and strip are secured together in a simple and effective manner.

The invention further consists in the novel details of improvement that are more fully hereinafter set forth, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, which form part of this specification, wherein—

Figure 1 is a face view of a piece of wire lath embodying my invention; Fig. 2, a section through *k k* of Fig. 1; Fig. 3, a section along the line *c c*, Fig. 1; Fig. 4, a detail view of the U-shaped stiffener, showing the method of its fastening to the wire lath; and Fig. 5, a longitudinal section along the line *c' c'*, Fig. 4.

Similar letters throughout the several views indicate similar parts.

A represents a piece of wire-cloth composed of strands *a*, woven into substantially the shape shown in Fig. 1.

B represents a U-shaped bar having flanges *b b*, in which flanges lips D D are cut at suitable places. These lips are adapted to inclose the strands *a* of the wire-cloth, and when bent down upon the strand hold the stiffener securely in place. The U-shaped

bar or stiffener is preferably struck out of sheet metal—such as iron—for the reason that such material is much cheaper and lighter. The lips D D are cut, as shown in the drawings, on both of the flanges *b b*, substantially as shown in Figs. 1 and 4. The stiffener after it has been cut upon its flanges according to my invention has lips projecting upward, as shown in dotted lines in Figs. 2 and 5, and after the stiffener has been pushed upon the wire-cloth the strands are held in these lips, and the lips are pressed down by machinery or other suitable means, and thus the stiffener and wire-cloth are firmly held together. In the drawings these lips are cut on opposite sides alternately—that is, the first lip incloses a strand on the left side of the groove in the stiffener, and the second lip holds a strand in the right side of the stiffener below the first lip. This is not necessary, for it is obvious that the lips may be placed side by side—that is, the first and second lips may inclose the same strand, my invention being an improved wire lath, consisting of wire-cloth having a stiffener which is grooved or U-shaped with flanges on opposite sides of the groove and with lips in these flanges whether placed side by side or alternating, said lips being adapted to pass through the mesh of the wire-cloth and to be folded or laid over the strands of said cloth, and thus securely attach itself to the wire-cloth.

I am aware that grooved or U-shaped stiffeners have been used in wire lathing, but they have been fastened by means of clips entirely separate from the stiffener.

In my improved lathing the lips or fasteners for the stiffener are integral with the stiffener, being cut in the flanges and struck upward.

The advantages of my improved construction of wire lathing are that the stiffener may be fastened to the wire lathing by means of machinery and held securely in place by reason of the lips engaging the strands. There is little or no hand-work required and no extra material to be wasted.

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

1. A stiffener for wire cloth or lath, consisting of a grooved or U-shaped bar having flanges on opposite sides, and lips in said

flanges, extending substantially parallel with the length of the bar and projecting outwardly from said flanges, said lips being adapted to pass simultaneously through the mesh of a
5 wire cloth or lath and to be folded or laid over the strands of said cloth or lath to confine said wires between the bar or flanges and the lips, substantially as described.

2. A stiffener for wire cloth or lath, consist-
10 ing of a grooved or U-shaped bar having flanges on opposite sides, and lips in said flanges, said lips alternating on opposite sides of the bar and extending substantially parallel with the length of the bar, and adapted
15 to engage the strands of the wire cloth or lath, substantially as described.

3. A stiffener for wire-cloth, consisting of a grooved or U-shaped bar having flanges on opposite sides and lips in said flanges, extending substantially parallel with the length of the bar, in combination with a wire cloth or lath against which said stiffener is placed, the lips of the stiffener being folded or laid over the strands of the cloth to confine said strands between the bar or flanges and the lips, substantially as described.

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