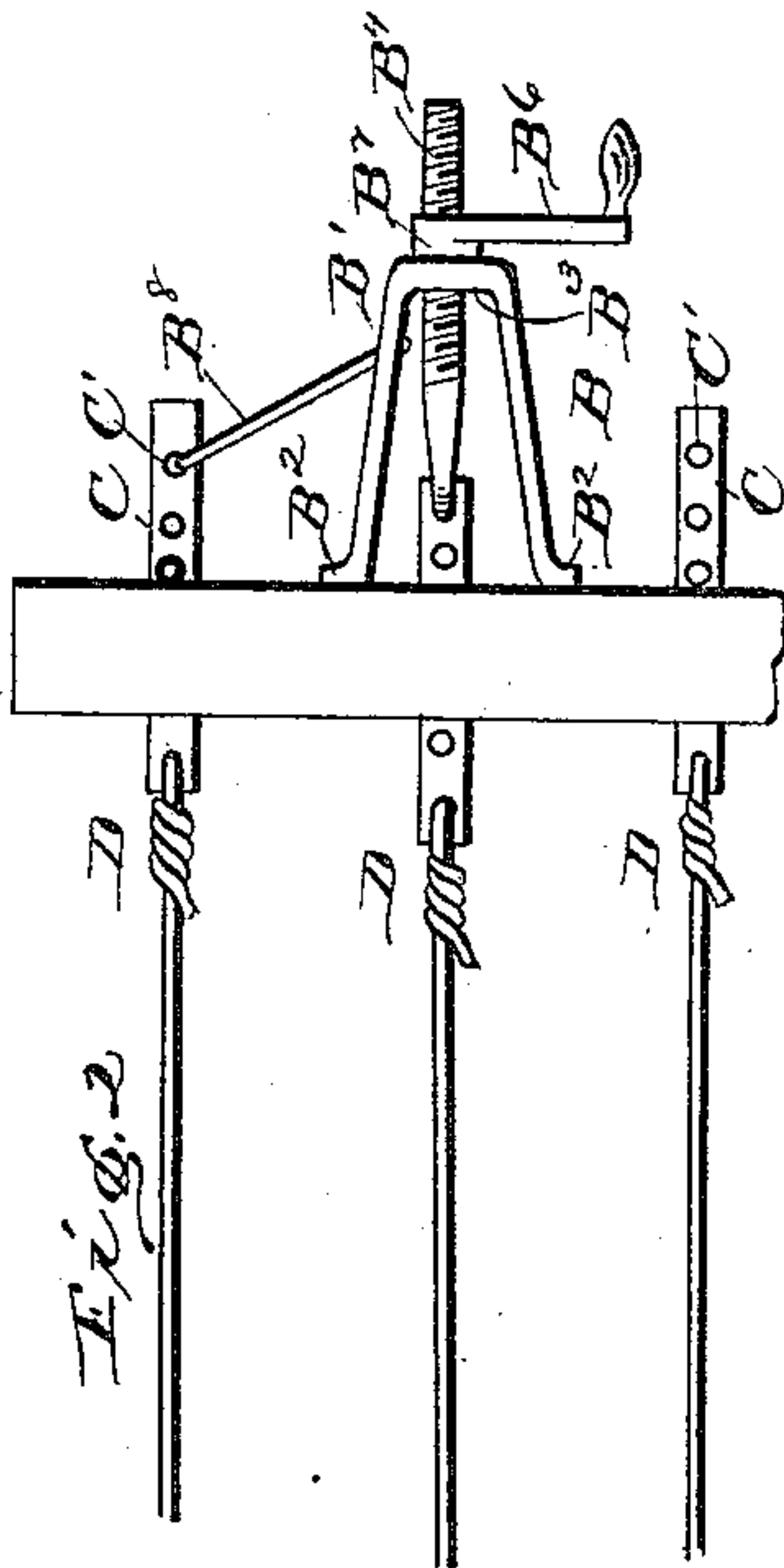
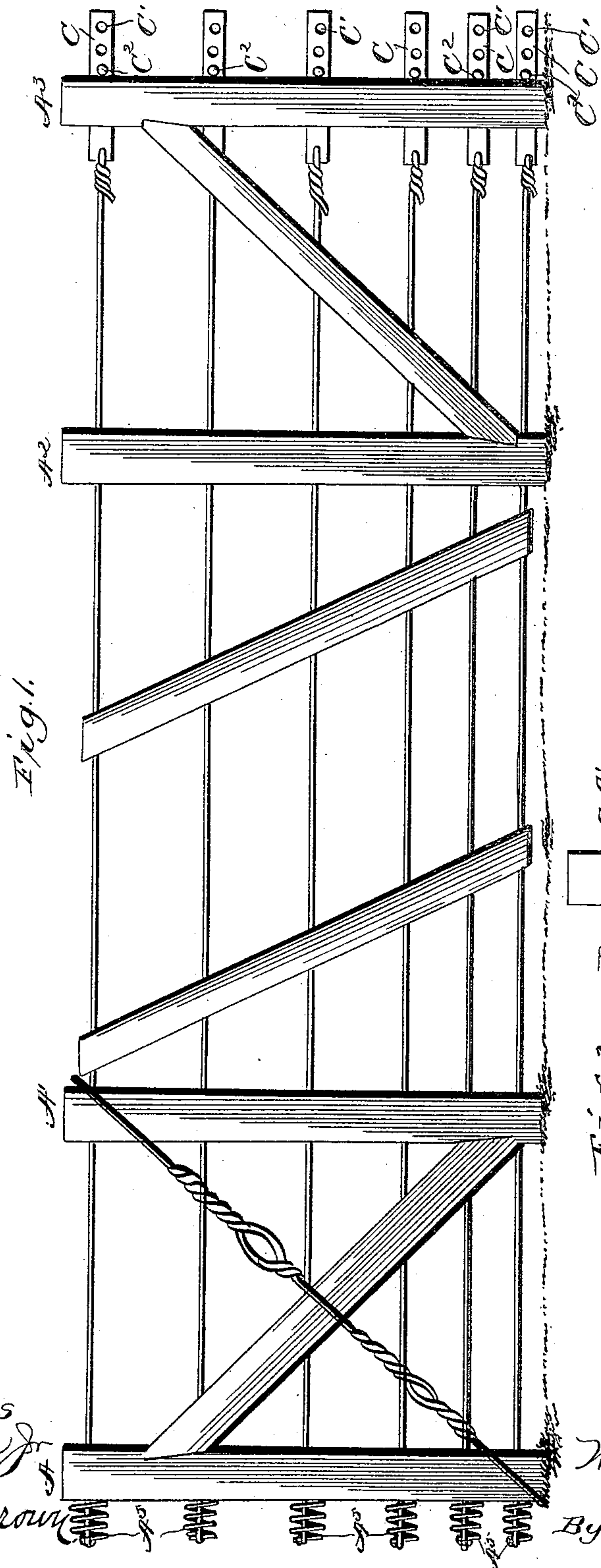


(No Model.)

W. S. FITZGERALD.  
WIRE STRETCHER.

No. 529,374.

Patented Nov. 20, 1894.



Witnesses  
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# UNITED STATES PATENT OFFICE.

WALTER S. FITZGERALD, OF DANVILLE, KENTUCKY.

## WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 529,374, dated November 20, 1894.

Application filed June 21, 1894. Serial No. 515,251. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER S. FITZGERALD, a citizen of the United States, residing at Danville, in the county of Boyle and State of Kentucky, have invented a certain new, useful, and valuable Improvement in Wire-Stretchers, of which the following is a full, clear, and exact description.

My present invention relates to improvements in wire stretchers and fences, and has for its object to provide the combination and arrangement of parts as hereinafter fully described.

In the accompanying drawings,—Figure 1 is an elevation of a fence showing my improvement applied thereto. Fig. 2. is a detailed view of a portion of a fence with my stretcher in position thereon. Fig. 3. is a detailed view showing my threaded draw-bolt.

Similar characters of reference indicate the same parts throughout the several views.

A, A', A<sup>2</sup>, A<sup>3</sup>, represent uprights or posts through which wires are strung, preferably by boring holes through said posts of a size to allow the wires to be drawn therethrough, except at post A, where the ends of the several wires are secured in any ordinary way, or I may employ springs A<sup>5</sup>, to which the ends of the wires are secured in the manner shown, and which serve to take up any slack which may occur in any of the wires after they have been tightly drawn and secured at the opposite end post, A<sup>3</sup>.

As a means of drawing the wire I employ the stretcher B consisting of a bracket B' the feet B<sup>2</sup> of which bear against the outer surface of the post A<sup>3</sup>, and through a smooth bored hole in the head B<sup>3</sup> of which passes a draw bolt B<sup>4</sup> which is threaded for most of its length and at the inner end of which is provided a hook B<sup>5</sup> adapted to hook into the holes C' of the draw bars C, which latter are movably set in the post A<sup>3</sup>. The handle B<sup>6</sup>, having the threaded head B<sup>7</sup>, is adapted to work over the threaded part of the draw-bolt B<sup>4</sup> and draw the same outward or away from the post A<sup>3</sup> when said handle is turned to the right thereby tightening the particular wire or draw-bar to which it is connected as heretofore described. After the draw bars have been pulled outward the desired distance a

pin C<sup>2</sup> is inserted in the hole next to the outer surface of the post, which pin prevents the draw-bar from slipping back after the stretcher has been removed.

As the stretcher in its full size would be quite heavy, I may employ a supporting arm B<sup>8</sup> which helps to support the stretcher while it is being adjusted in position, said arm being hooked into one of the holes in a draw-bar above, as shown in Fig. 2, or it may be hooked into a draw-bar below by turning the stretcher around in proper position, as would be necessary when the stretcher is used on the top draw-bar.

I may dispense with the draw-bars C by extending the ends of the wires D through the post A<sup>3</sup> and attaching the hook B<sup>5</sup> directly thereto, securing the end of the wire with a staple or in any other suitable manner after it has been drawn taut.

Between each set of supporting posts A', A<sup>2</sup>, I provide two or more slanting bars D, which are strung upon and supported by the wires as shown. After due observation and experiment I have discovered that slanting bars such as I have shown are very readily seen by and effectively prevent cattle from breaking down the fence.

I claim—

In combination with a wire fence the strands of which are provided at one end with perforated draw-bars, a stretching device for said strands consisting of the bracket B', provided with feet B<sup>2</sup>, and recessed head B<sup>3</sup>, a threaded draw-bolt B<sup>4</sup> having a rigid hook B<sup>5</sup>, said draw-bolt passing through the recessed head of the bracket, a handle B<sup>6</sup>, provided with a threaded recess adapted to engage with the threaded draw-bolt, and a supporting arm B<sup>8</sup>, having one of its ends connected to the bracket and its other end being adapted to engage with a perforation in one of the draw-bars and support the stretcher in a horizontal position when in use, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WALTER S. FITZGERALD.

Witnesses:

ROBT. J. BRECKINRIDGE,  
R. M. O'REAR.