

No. 896,927.

PATENTED AUG. 25, 1908.

W. G. MATSON.
WIRE STRETCHER.
APPLICATION FILED MAR. 5, 1908.

2 SHEETS—SHEET 1.

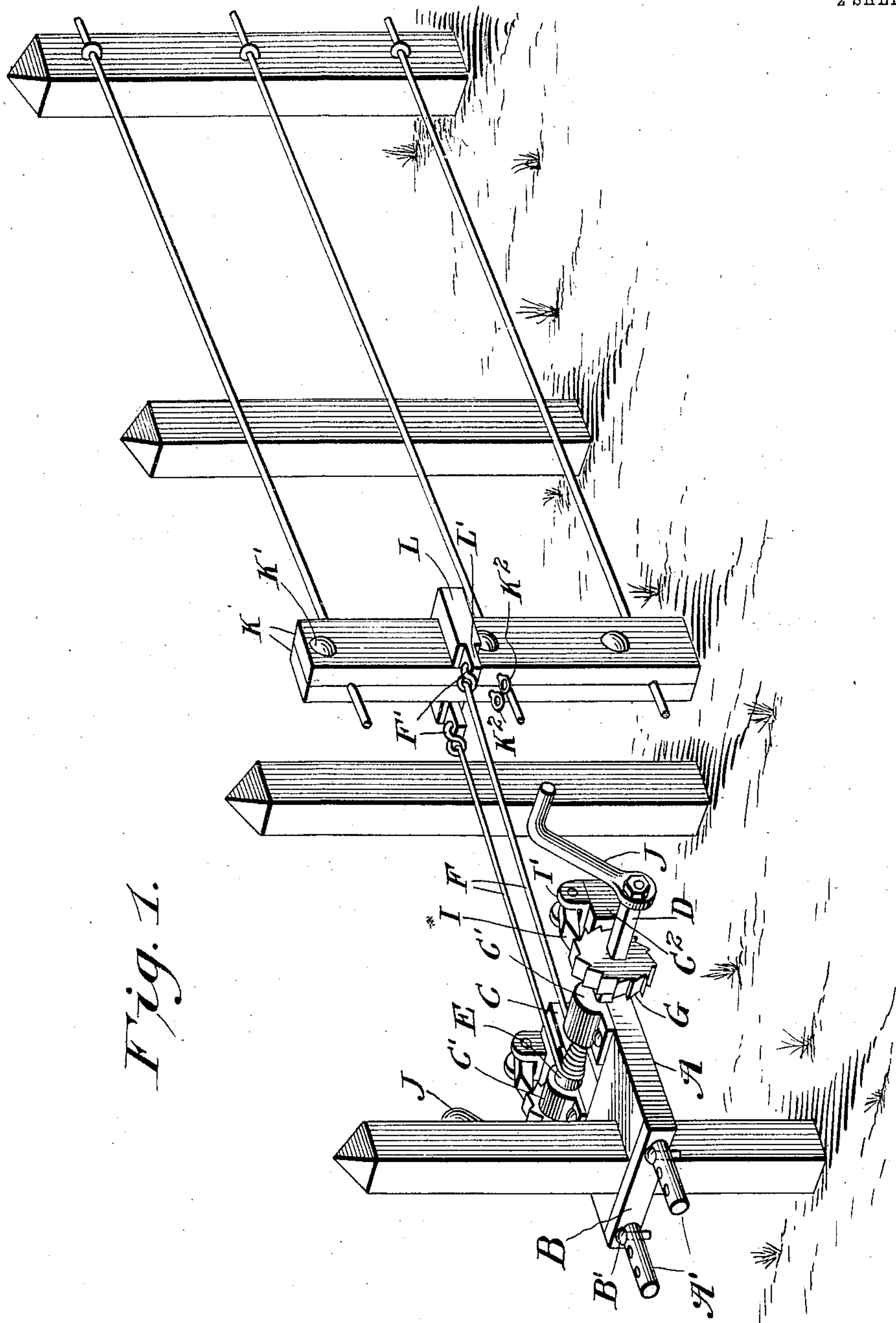


Fig. 1.

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2 SHEETS--SHEET 2.

Fig. 2.

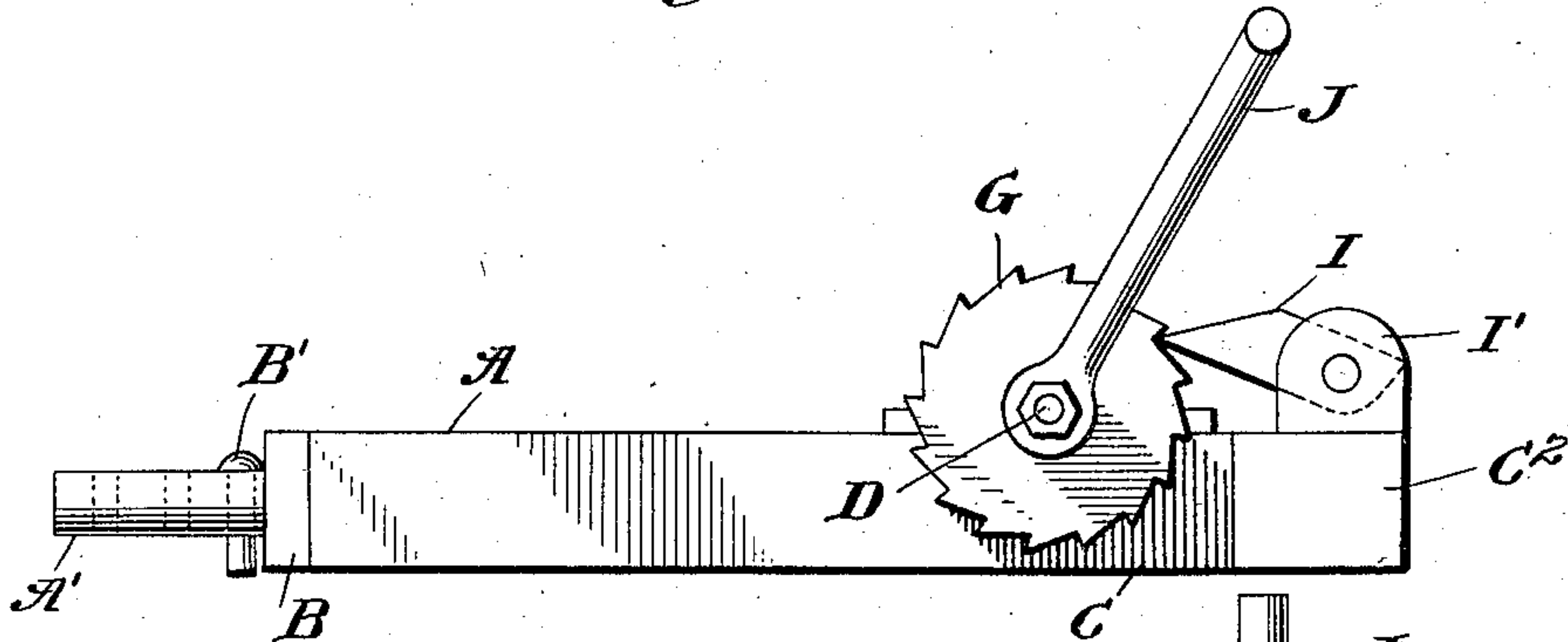
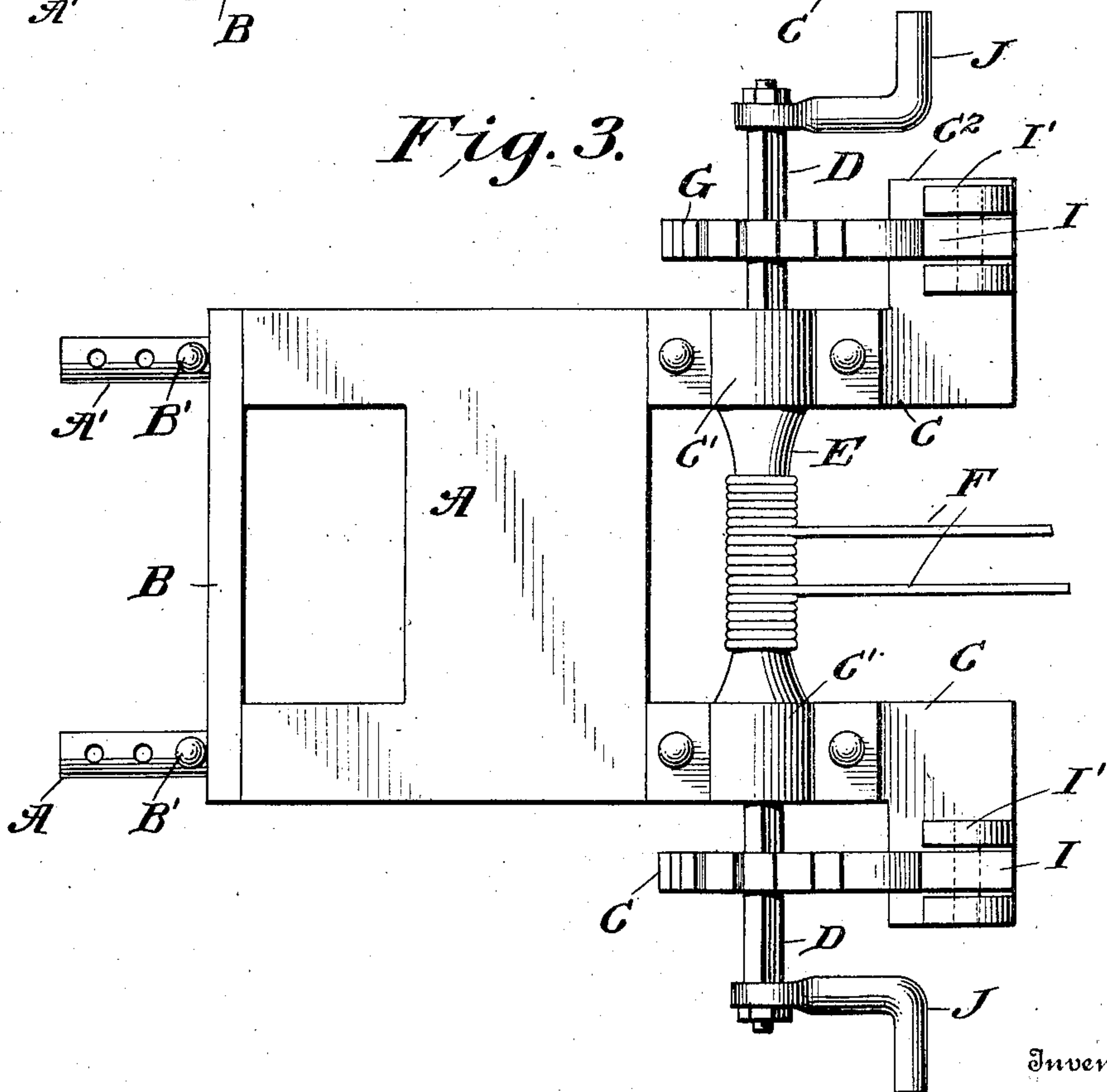


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM G. MATSON, OF KENNETT SQUARE, PENNSYLVANIA.

WIRE-STRETCHER.

No. 896,927

Specification of Letters Patent.

Patented Aug. 25, 1908.

Application filed March 5, 1908. Serial No. 419,300.

To all whom it may concern:

Be it known that I, WILLIAM G. MATSON, a citizen of the United States, residing at Kennett Square, in the county of Chester and State of Pennsylvania, have invented certain new and useful Improvements in Wire-Stretchers, of which the following is a specification.

This invention relates to wire stretchers for stretching wire in putting up wire fences, the object being to provide a wire stretcher by means of which greater lengths of wire can be stretched than with devices of this character now in use.

Another object of my invention is to provide a wire stretcher which is exceedingly simple in construction and one which can be easily operated.

Another object of my invention is to provide very novel means for clamping the strands of wire, so that the operating cables of my improved wire stretcher can be attached thereto.

Another object of my invention is to provide a yoke in connection with the clamping members to which the cables are adapted to be connected, so that the position of the pull on the clamping bar can be adjusted to suit different conditions of the ground upon which the fence is being constructed.

These objects are attained by the novel arrangement and construction of parts hereinafter fully described and shown in the accompanying drawings, in which:—

Figure 1, is a perspective view of my improved wire stretcher showing the application of the same. Fig. 2, is a side elevation of the wire stretcher, and, Fig. 3, is a top plan view of the same.

In carrying out my improved invention I employ a body A, having a notch formed in one end forming outwardly projecting bars, which are reduced to form circular portions A', and are provided with a series of openings over which are secured the apertured ends of a cross bar B, by pins B', which extend through the openings for securely fastening the cross bar over a post. It will be seen that by providing the bars with openings, the cross bar B, can be adjusted so as to fit around any size post. Extending out from the opposite end of the body A, are arms C, provided with bearings C', in which is mounted a shaft D, which is provided with a drum E, on which are wound cables F, provided with hook members F', at their outer

ends, for the purpose hereinafter fully described.

The outer ends of the shaft D, are formed square on which are mounted ratchet wheels G, adapted to be engaged by gravity pawls I, mounted in brackets I', secured on the angled end portions C², of the arm C. Crank arms J are secured by nuts on the extreme outer ends on the shaft D. By means of these crank arms the shaft may be operated to wind the cable upon the drum. The ends of the pawls are cut off obliquely so as to allow the pawls to move upwardly freely so that they will ride over the ratchet, but, will engage the brackets when swung up too far, so as to prevent them from going all the way over.

For clamping the wires I provide a pair of flat bars K, which are secured together over the strands of wire by bolts K', so that they will be securely clamped between the same, and these bars are provided with eyes K², to which the hooks F', of the cables can be attached if desired, but, I preferably arrange over the bars a yoke L, which is provided with reduced apertured ends L', in which the hooks F', are adapted to fit. It will be seen that by this arrangement, the yoke can be moved up and down on the clamping bars so that a straight pull will be obtained.

The operation of the device is as follows:— When it is desired to stretch the strands so that they can be drawn tight to be stapled to the post, the clamping bars are secured over the wires and the yoke over the clamping bars, the body is then secured to a post in advance of the post to which the wire has been secured, and the hooks connected to the yoke, and by turning the crank arms the drum will be rotated, so as to stretch the wires very tight, and it will be seen that the pawls will engage the ratchets and lock the drum, so as to prevent it from turning when the crank arms are released, and it will be seen that the wires will be held in their proper position, so that they can be readily stapled to the post.

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

1. A wire stretcher comprising a body provided with outwardly extending bars having reduced ends provided with a series of openings, a cross bar arranged on said reduced ends and secured thereon by pins passing through said openings, a shaft mounted on

the body, a drum secured on the snarl, cables carried by the drum provided with hooks at their ends, clamping means carried by said hooks and means for rotating said drum.

- 5 2. A wire stretcher comprising a body having a notch formed in one end forming outwardly projecting bars provided with reduced rounded ends having spaced openings, a cross bar provided with apertured ends secured on said reduced ends by pins extending
10 through said openings, arms extending out from the other end of the body provided with angled ends, a shaft mounted on said arms

provided with ratchet wheels, pawls pivotally mounted on the angle ends of the arms 15 engaging said ratchet wheels, a drum carried by said shaft and cables carried by said drum provided with hooks.

In testimony whereof I have signed my name to this specification in the presence of 20 two subscribing witnesses.

WILLIAM G. MATSON

Witnesses:

R. H. KRENKEL,
REA P. WRIGHT.