

(No Model.)

3 Sheets—Sheet 1.

T. I. RUSHTON.
WIRE FENCE.

No. 409,242.

Patented Aug. 20, 1889.

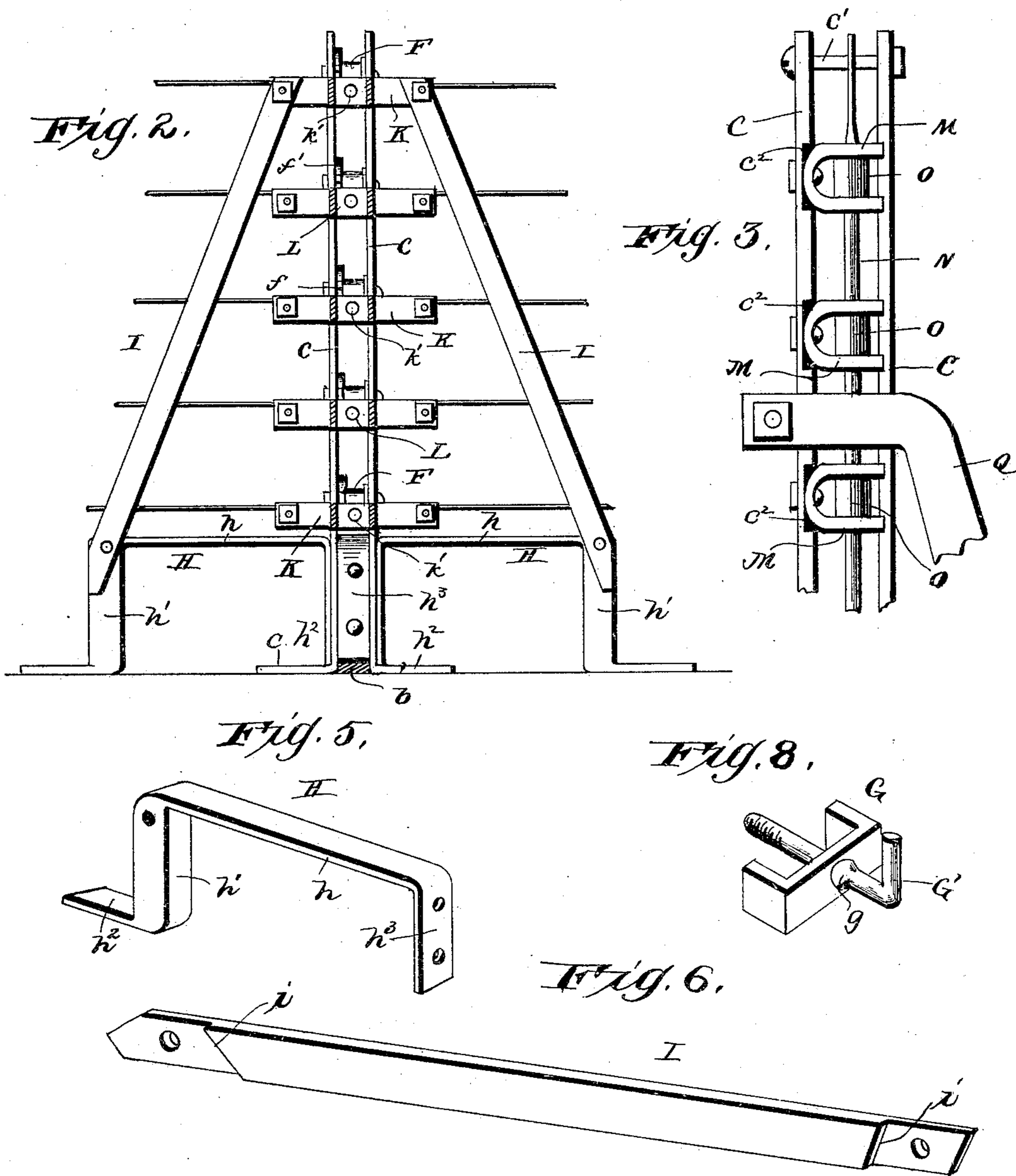
(No Model.)

3 Sheets—Sheet 2.

T. I. RUSHTON.
WIRE FENCE.

No. 409,242.

Patented Aug. 20, 1889.



Witnesses:

Thank's Over

Chas. Day,

Inventor.

Thomas I. Rushtore

By *his* Attorneys

Chas. Snowball

(No Model.)

3 Sheets—Sheet 3.

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Fig. 9.

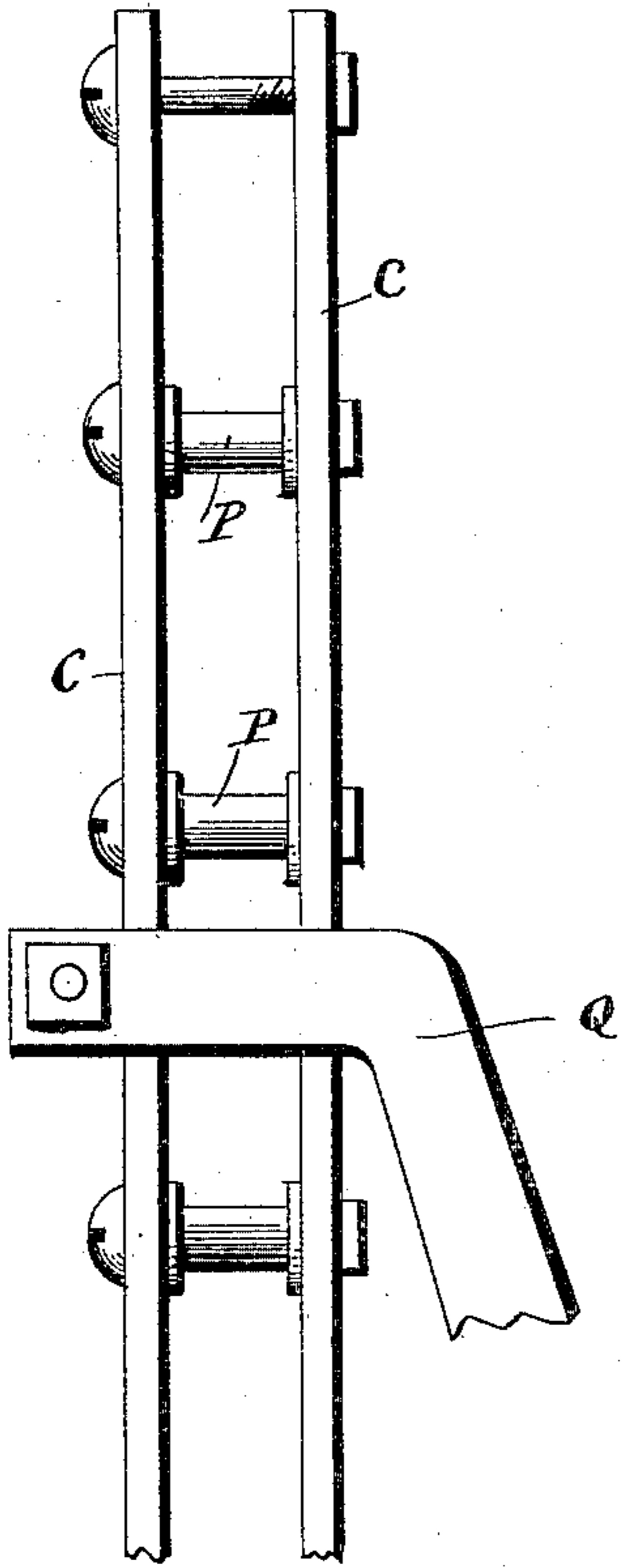


Fig. 4.

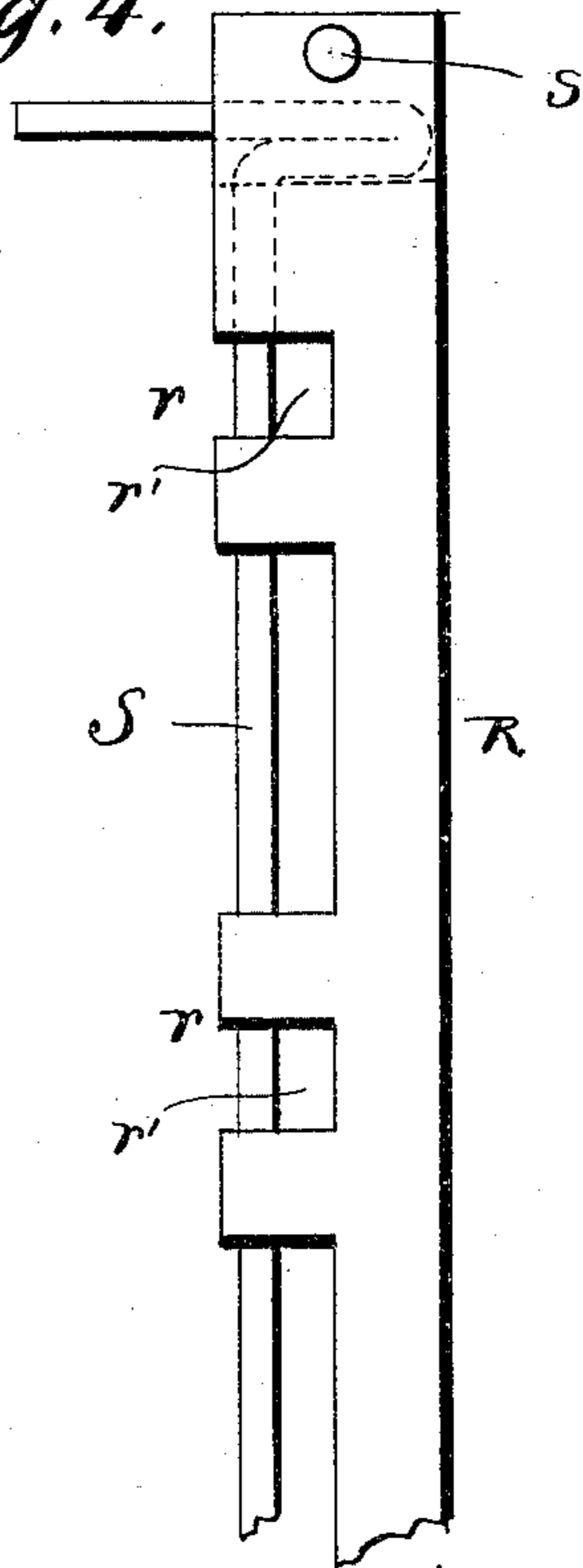


Fig. 7.

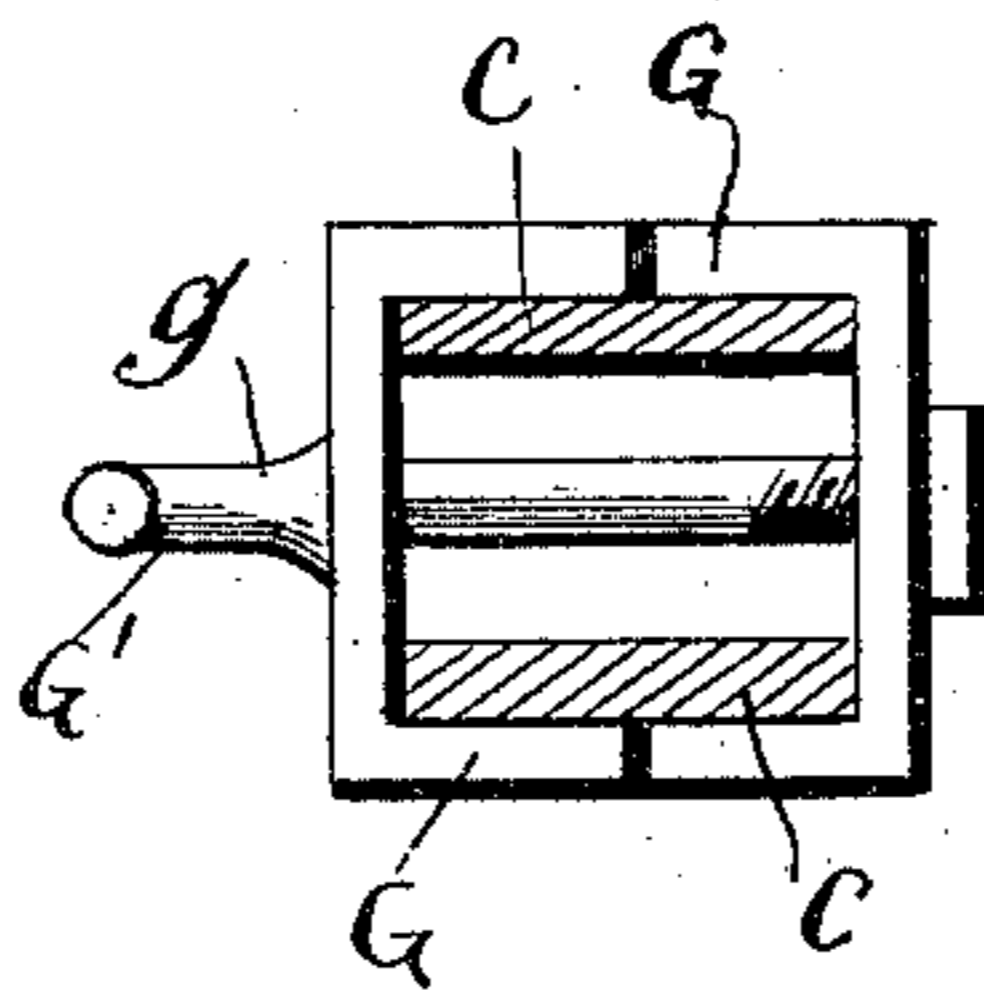
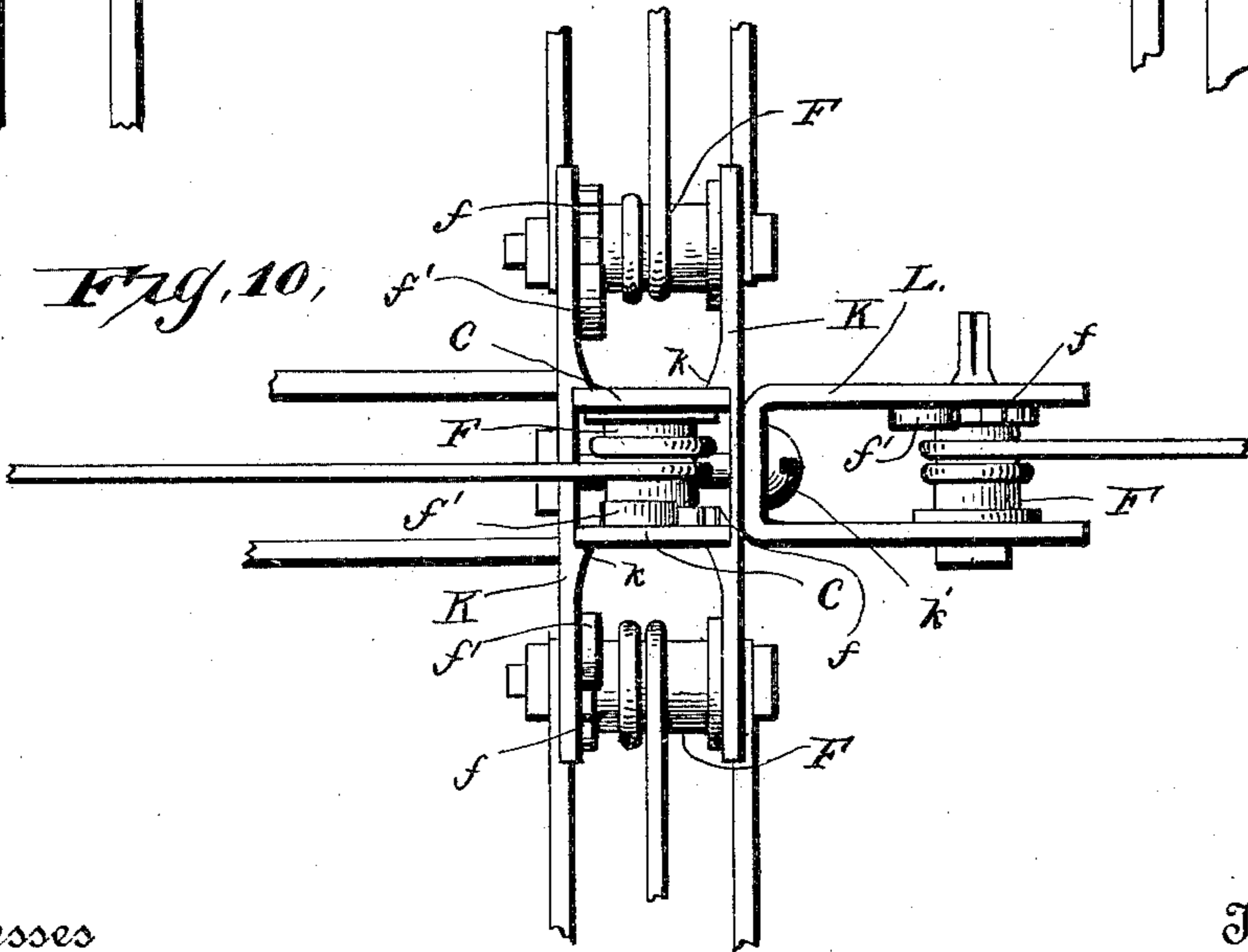


Fig. 10.



Witnesses

Thos. I. Rushton

A. C. May Jr.

Inventor

Thomas I. Rushton

By his Attorneys

A. C. May Jr.

UNITED STATES PATENT OFFICE.

THOMAS I. RUSHTON, OF CENTRE VALLEY, INDIANA.

WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 409,242, dated August 20, 1889.

Application filed February 14, 1889. Serial No. 299,836. (No model.)

To all whom it may concern:

Be it known, that I, THOMAS I. RUSHTON, a citizen of the United States, residing at Centre Valley, in the county of Hendricks and State of Indiana, have invented new and useful Improvements in Wire Fences, of which the following is a specification.

The invention relates to improvements in wire fences; and it consists in a certain novel construction and combination of devices fully described hereinafter in connection with the accompanying drawings, and specifically pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a fence embodying my improvements, and showing a corner-post, a gate-post, and an intermediate post. Fig. 2 is an end view, partly in section, of the corner-post. Fig. 3 is a side view of the intermediate post, which is provided with means to guide the wire around a curve or over uneven ground. Fig. 4 is a detail view of the stay. Fig. 5 is a similar view of one of the lower braces. Fig. 6 is a similar view of one of the inclined braces. Fig. 7 is a sectional view of the upper end of the gate-post, to show the manner of attaching the gate-hinge thereto. Fig. 8 is a detail view of one of the clips which are used to secure the hinge to the post. Fig. 9 is a view of the intermediate post, provided with the horizontally-disposed spools to guide the wire over uneven or hilly ground. Fig. 10 is a plan view of the corner-post.

Referring by letter to the drawings, A designates the gate-post, which consists of the stock B, provided on opposite sides with feet *b b*, which bear on the surface of the ground and are coincident with the line of the fence. Vertical side straps C C are bolted to opposite sides of the said stock and are provided at their lower ends with the laterally-extending feet *c c* at right angles to the feet *b b*. The feet *b* and *c* are held firmly down on the surface of the ground by the anchors D D, which are driven in the ground on opposite sides thereof, and are provided with shoulders to bear thereon.

Transverse bolts E E are arranged in registering-apertures in the parallel straps C C, and are engaged at their projecting ends by suitable tightening-nuts, and winding-spools F F

are rigidly attached to the intermediate points of the said bolts and bear at their ends against the inner sides of the straps. One end of each of the said spools is provided with a ratchet *f*, which is engaged by a pawl *f'*. One end of the bolt is squared, to be engaged by a wrench, to enable the spool to be turned.

Flanged clips G G are arranged on opposite sides of the gate-post, and the hinge G' is provided with a threaded shank, which extends through registering-perforations in the clips and is engaged at its free end by a suitable nut. The shank is provided with a shoulder *g* to bear against the outer clip.

The lower brace H consists of the horizontal portion *h*, the vertical standard *h'*, which is integral with one end of the horizontal portion, and the foot *h²*, which bears on the surface of the ground. The other end of the horizontal portion of the lower brace extends between the side straps of the post, and is bent downward to form a depending arm *h³*, which is bolted to the outer side of the stock.

Inclined braces I I are arranged on opposite sides of the line of the fence, and are bolted at their upper ends respectively to the straps C C and at their lower ends to opposite sides of the upper end of the standard *h'*. These braces are shouldered on their inner sides, as shown at *i i*, to bear against the edges of the straps and standard.

The construction of the corner-post corresponds exactly with that of the post above described except that the former is provided with lower and inclined braces on all four sides in line with the main and the intersecting fence, as shown clearly in the drawings.

Horizontal parallel plates K K are secured to the opposite sides of the corner-post and support winding-spools similar to those above described between their adjacent free ends, to which are attached the ends of the wires of the intersecting fence. These plates are provided on their inner or adjacent sides with shoulders *k k*, which bear against the outer sides of the straps C C, respectively, and a central bolt *k'* engages central perforations in the plates.

Yokes L L, having winding-spools arranged between their adjacent free ends, are attached at their closed ends to the bolts *k'*, which se-

cure the plates K K in position. These spools receive the wires which form the continuation of the main fence shown in the drawings.

The intermediate posts consist of the stock 5 and the side straps arranged as described, said side straps being held in position at their upper ends by the transverse bolt c' .

Small guides or clevises M are arranged between the side straps, and fit at their closed 10 and free ends, respectively, in shallow grooves $c^2 c^2$ in the inner sides of the straps, and a vertical rod N is arranged in registering-perforations $m m$ in the guides or clevises, and is perforated at its upper end to receive the 15 transverse bolt c' . On this vertical rod, between the sides of the guides or clevises, are mounted the guiding-spools O O, against which the wire bears in passing around a curve. The lower end of the rod N fits in a socket 20 c^3 in the upper end of the stock. In Fig. 9 these guides or clevises are removed and substituted by horizontally-disposed guiding-spools P P, over or under which the wire passes in hilly or uneven localities.

The intermediate posts are provided with 25 braces Q Q, which are made in the form of a loop, the sides of which are connected near its free end by the transverse bar q . The free ends of the loop are passed on opposite 30 sides of the post and are bolted together, and the closed end of the loop is bolted to the foot of one of the vertical straps.

R designates a vertical stay which is arranged on the wires between the posts to hold 35 them at the proper intervals, and it is provided on one side with lateral ears $r r$, provided with horizontal notches r' , in which the wires are received. The ears are provided near their outer ends with vertical perfora- 40 tions, in which a vertical rod S is fitted, and the rod is locked in its place in the stay by a transverse key s , which engages its upper end. The vertical rod holds the wires in the notches of the ears.

The construction of the improved fence 45 will be readily understood from the foregoing description; but various minor changes may be made in the arrangement of the parts without departing from the spirit of the in- 50 vention.

If preferred, the stocks may be driven in the ground in the ordinary way, and the lower ends of the posts driven in on opposite sides thereof and bolted to the stocks; but when 55 constructed as above described the fence is stronger. A greater or less number of braces may be used according to the requirements and the location of the fence.

Instead of bolting the yokes L to the plates 60 K, as hereinbefore described, the parallel arms thereof may be passed on opposite sides of the post, and a bolt may be passed through the said arms and the post, for which purpose the said arms are provided with perforations 65 $l l$.

The pawls f' are pivoted above the ratchet f and their free ends are normally in engage-

ment with the latter. No springs are used, as will be observed, and after the wire has 70 been tightened sufficiently the nuts on the ends of the bolts E E are screwed tightly against the outer surfaces of the straps, thereby locking the spools against movement.

Having thus described the invention, I claim—

1. The combination of the stock provided 75 with horizontal feet, which are anchored to the surface of the ground, the vertical parallel side straps bolted to the stock and provided with horizontal feet bearing on the sur- 80 face of the ground, and the winding-spools arranged between the straps to receive the wire, substantially as specified.

2. The combination of the vertical stock 85 secured to the ground, the side straps bolted to the stock, the lower brace having a vertical standard bearing on the ground and a horizontal portion secured at its ends to the stock, and the inclined braces bolted at their upper 90 ends to the side straps and at their lower ends to the lower brace, substantially as specified.

3. The combination of the stock having 95 side straps bolted thereto, the lower brace having a vertical standard provided with a foot which bears on the ground, and a horizontal portion which extends between the 100 side straps, and is provided with a depending arm h^3 , which is bolted to the stock, and the inclined braces bolted to the side straps and the lower brace and provided with shoulders 105 on their inner sides to engage the same, substantially as specified.

4. The combination, with the side straps 110 having registering perforations, of the bolt inserted in said perforations and having one end angular to be engaged by a wrench, and provided with a tightening-nut on its other 115 end adapted to be turned up against the side straps, the winding-spools secured rigidly on said bolts between the straps and having 120 ratchet-wheels at their ends, and the pawls pivoted to the straps above the spools and engaging the ratchet-wheels, as set forth.

5. The combination, with the parallel side 125 straps secured at their lower ends to a stock and having tightening-spools mounted therebetween, of the clips G G, arranged in contact with opposite sides of the straps, the hinge provided with a shouldered shank en- 130 gaging perforations in the said clips, and the nut engaging the free threaded end of the said shank, substantially as specified.

6. The combination, with the vertical parallel 135 straps having winding-spools arranged therebetween, and the braces connected to the said straps, of the horizontal plates bolted to opposite edges of the straps, and the winding-spools arranged between the adjacent 140 free ends of the plates to engage the ends of the wires of an intersecting fence, substantially as specified.

7. The combination, with a post comprising 145 vertical parallel straps having winding-spools arranged therebetween to engage the fence-

wires, of the transverse horizontal parallel plates K K, bolted to opposite sides of the post and provided at their extremities with winding-spools to engage the wires of the intersecting fence and the yokes L L, bolted to the centers of the plates K and having winding-spools arranged between their free ends to engage the wires of the main fence, substantially as specified.

8. The combination, with the posts provided with wire-stretching spools, of the intermediate post having the parallel vertical straps, and the clevises or guides arranged between the said straps to guide the wire, substantially as specified.

9. The combination, with the posts provided with wire-stretching spools, of the intermediate post having parallel side straps, and the guiding-spools arranged at suitable intervals between the straps to guide the wire around a curve or over uneven ground, substantially as specified.

10. The combination, with the posts provided with wire-stretching spools, of the intermediate posts having the parallel vertical straps provided with recesses c^3 in their inner sides, the U-shaped clevises fitting in said recesses and the guiding-spools arranged in said clevises, as set forth.

11. The combination, with the posts provided with wire-stretching spools, of the intermediate post having parallel side straps

secured at their lower ends to a stock, the transverse bolt connecting the upper ends of the said straps, the guides or clevises M M, arranged between the side straps and provided with vertical perforations, the vertical rod fitting in the said perforations and perforated at its upper end to receive the said transverse bolt, and the loop-shaped brace Q, passing at its free ends on opposite sides of the straps and provided with a transverse bar to bear against the same, and the bolt engaging the free ends of the brace, substantially as specified.

12. The base for fence-posts, consisting of the stock B, and the metallic foot extending horizontally from the upper end of the stock and having one end bolted to the stock and its other end resting on and anchored to the ground, as set forth.

13. The combination of the stock, the side straps bolted to the stock and having their lower ends bent horizontally outward therefrom, and the foot bolted to the stock and extending therefrom at right angles to the lower ends of the side straps, as set forth.

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

THOMAS I. RUSHTON.

Witnesses:

EDGAR H. RUSHTON,
LEVI J. RUSHTON.