

(No Model.)

J. A. E. ANDERSON.  
FENCE.

No. 502,343.

Patented Aug. 1, 1893.

Fig. 1.

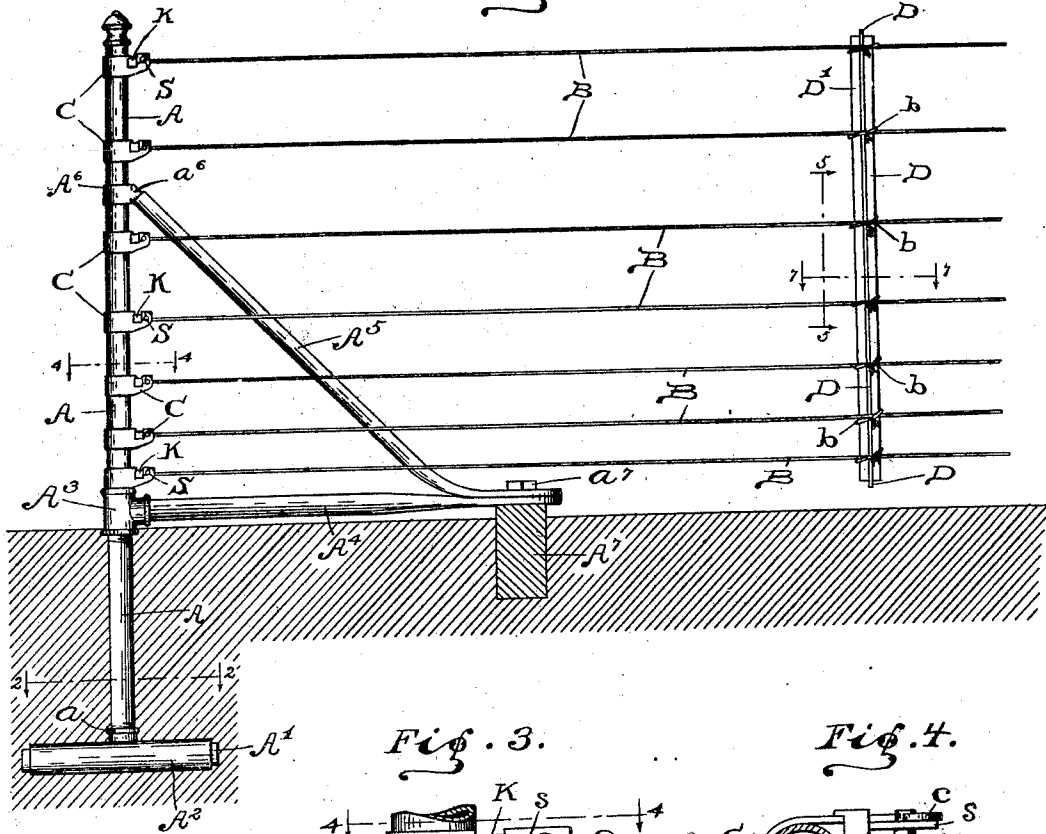
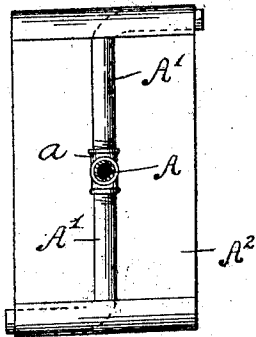


Fig. 2.



WITNESSES:

F. W. Warner.  
J. A. Walsh.

Fig. 3.

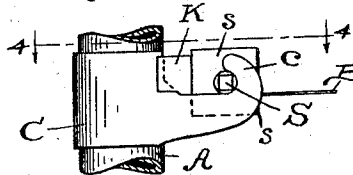


Fig. 4.

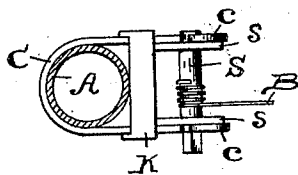


Fig. 5.

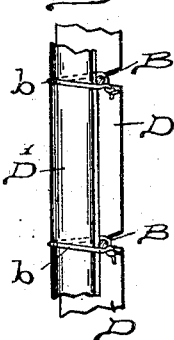


Fig. 6.

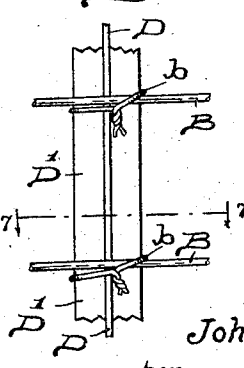
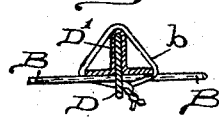


Fig. 7.



INVENTOR

John A. E. Anderson,

per

Chester Bradford,  
ATTORNEY.

# UNITED STATES PATENT OFFICE.

JOHN A. E. ANDERSON, OF LEBANON, INDIANA, ASSIGNOR OF TWO-THIRDS  
TO WILLIAM C. KERN AND THOMAS S. KERN, OF SAME PLACE.

## FENCE.

SPECIFICATION forming part of Letters Patent No. 502,343, dated August 1, 1893.

Application filed January 28, 1893. Serial No. 459,986. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. E. ANDERSON, a citizen of the United States, residing at Lebanon, in the county of Boone and State of Indiana, have invented certain new and useful Improvements in Fences, of which the following is a specification.

My said invention relates to that class of fences which are made up of posts, stays and wires, and it consists in certain details of construction and arrangements of parts, as will be hereinafter more particularly described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of a fragment of a fence embodying my improvements; Fig. 2 a plan view of the bottom end and anchor of the post, the post itself being shown in section, on the dotted line 2 2 in Fig. 1; Fig. 3 a side elevation, on an enlarged scale, of the wire tightener and post clip; Fig. 4 a top or plan view thereof, as seen from the dotted lines 4 4 in Figs. 1 and 3; Fig. 5 a side elevation, on an enlarged scale, of a fragment of the stay-bar, as seen from the dotted line 5 5 in Fig. 1; Fig. 6 a front elevation of the same, similar to a fragment of Fig. 1; and Fig. 7 a horizontal sectional view thereof, as seen when looking downwardly from the dotted line 7 7 in Figs. 1 and 6.

In said drawings the portions marked A represent the fence-post; B the fence wires; C the combined clips and tighteners, and D the stay-bars.

The fence-posts A are preferably made up of metal pipe, and the upper portion bears clips or other wire attaching devices, as shown. At the bottom it preferably enters a "T"  $a$ , and from these extend laterally arms  $A'$ , which may be bent in opposite directions at the outer ends, and over these arms I prefer to place a sheet metal anchor-plate  $A^2$ . It will be readily seen that such a construction effectually prevents the post from being pulled out of the ground. At a point about at the surface of the ground is another "T"  $A^3$  from which extends out, in the direction of the line of the fence, an arm  $A^4$ . Secured to the outer end of this arm is a brace-bar  $A^5$  which extends

thence to a point well up the post, to which it is secured by means of a ring  $A^6$  having a stem  $a^6$ , which enters the end of said brace-bar, when, as usual, it is formed also of pipe. A block  $A^7$  is preferably planted in the ground at the outer end of and underneath the arm  $A^4$ , and a bolt  $a^7$  passes down through the ends of these parts  $A^5$  and  $A^4$  and enters this block  $A^7$ , which is a desirable means of uniting said parts together. As will be readily observed, this form of brace, while easily and cheaply constructed, is very strong and rigid.

The fence wires B are or may be of any ordinary or desired form. They are secured to clips or other fastening devices C on the posts, and pass thence to the distance required, being connected at intermediate points to the stay-bars D.

The clips C surround the fence-posts A, as shown, and are preferably formed of sheet metal. Their ends  $c$  are hook-shaped, and constitute bearings for spools S around which the wire is wound. Said spool has square flange-ends  $s$ , and a flat-sided key K is adapted to fit in behind said ends, between them and the post, when the wire has been wound up, thus holding said spool from further revolution. An end of each spool-shaft projects through to the outside, and is squared or otherwise fitted for a wrench, as shown. It will be seen that this key and spool may both be removed and replaced without trouble, and, when removed, the clip itself can at once be taken off the post.

The stay-bar D is a flat metal strip having notches cut in its side at the distance apart which it is desired the fence wire shall be. Upon the side of this bar opposite the notches is placed a double sheet metal piece  $D'$  which incloses the body thereof up to about the bottoms of the notches, and is then flanged or turned out sidewise in the direction of the length of the fence, as shown, so that the flanges thus formed will rest or bear upon the fence wires B, and this prevents the stay-bars, as a whole, from being turned or twisted upon said wires. The stay-bars and the fence wires are united by wire bands  $b$ .

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

1. The combination, in a fence, of a post A formed of metal pipe, a coupling *a* at its extreme lower end, transversely extending arms A' secured thereto by said coupling, a plate A<sup>2</sup> bent over and thus secured to said arms A' and thus forming a flat horizontal anchor-plate on the bottom end of said post, substantially as shown and described.
2. The combination of the post A formed of pipe in two parts, a coupling A<sup>3</sup> uniting said two parts at or about the surface of the ground, an arm A<sup>4</sup> extending out from said coupling, a brace A<sup>5</sup> extending from said arm to a point near the top of the post, a coupling ring A<sup>6</sup> secured to said post and entering the end of said brace A<sup>5</sup>, a block A<sup>7</sup> secured in the ground at the outer end of the brace, and a bolt or pin *a*<sup>7</sup> passing through said brace and said arm into said block, the whole being constructed and arranged substantially as shown and described.
3. The combination, in a fence, of the post, the fence-wires, and intermediate stay-bars made up of the parts D and D', said parts D' being bent to partially inclose said parts D and being also bent or flanged to extend alongside and in contact with the fence wires, whereby the structure as a whole is prevented from turning.
4. The combination, in a fence, of the posts, the fence wires, and the intermediate stay-bars D having notches for said wires, inclosing portions D' upon said stay-bars and wires *b* whereby the several parts are secured together, substantially as set forth.
- In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 24th day of January, A. D. 1893.
- JOHN A. E. ANDERSON. [L. S.]
- Witnesses:  
CHESTER BRADFORD,  
JAMES A. WALSH.