

No. 892,826.

PATENTED JULY 7, 1908.

I. L. GRAHAM.
REINFORCED CONCRETE POST.
APPLICATION FILED DEC. 27, 1907.

Fig 1.

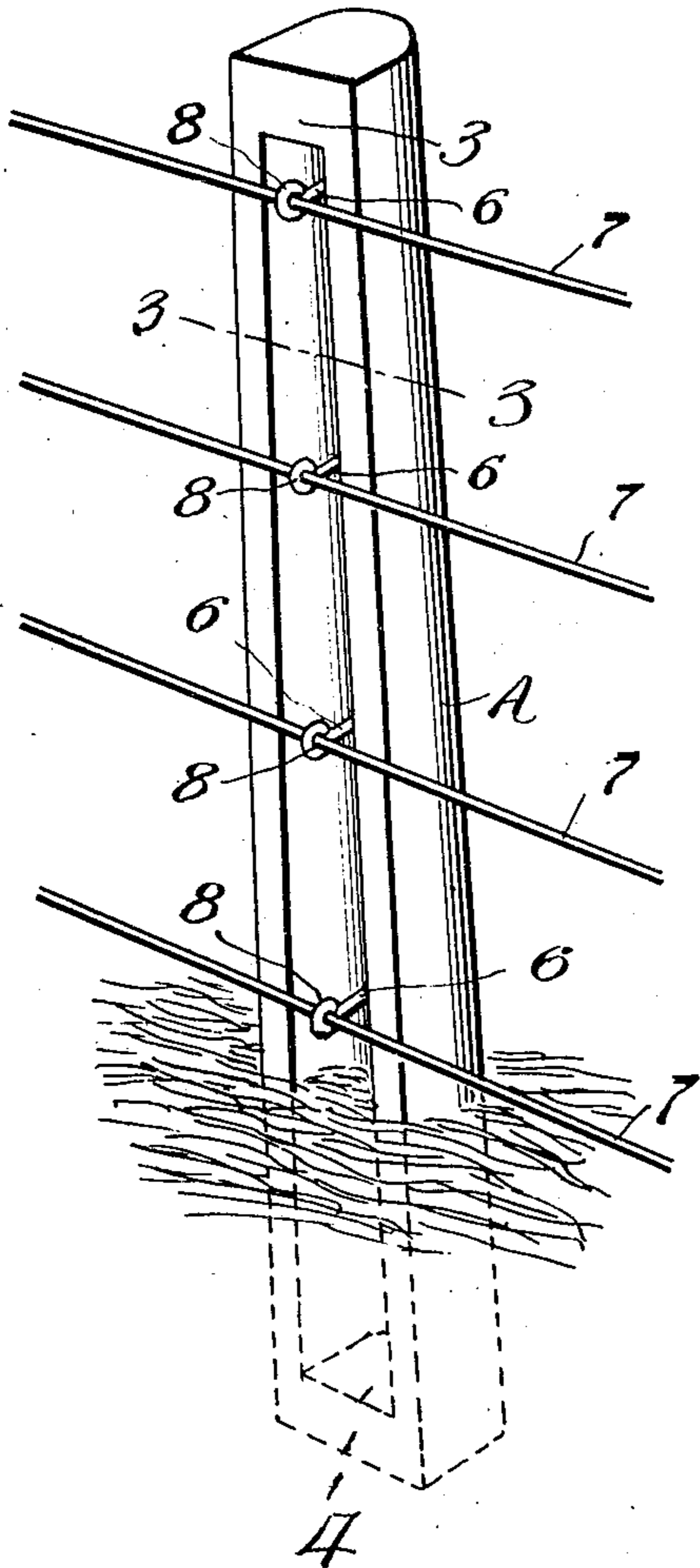


Fig 2.

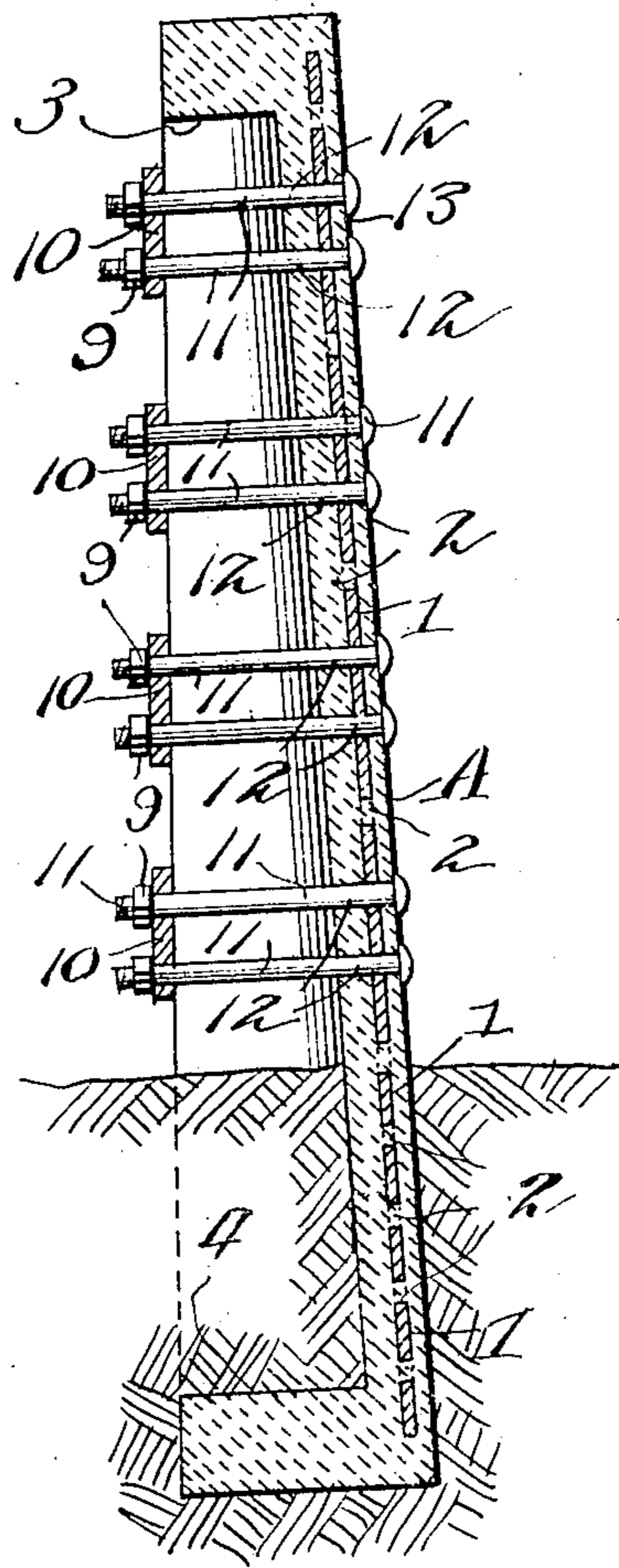
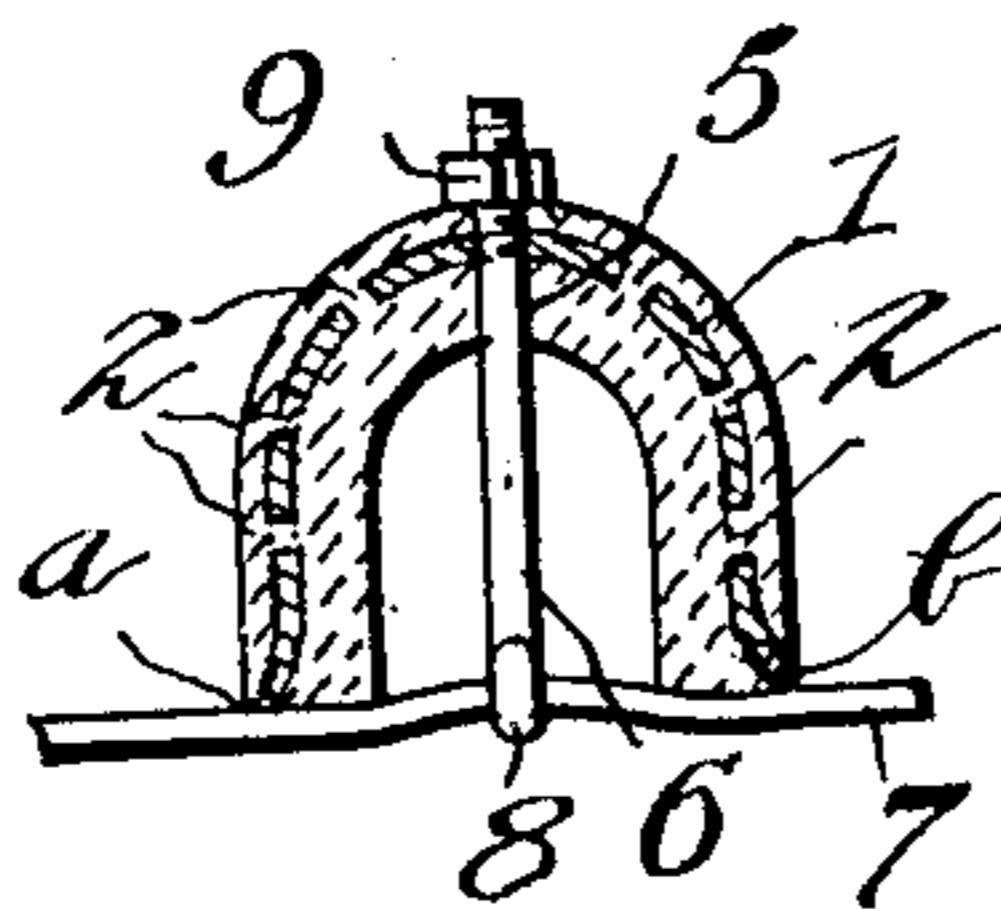


Fig 3.



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REINFORCED CONCRETE POST.

No. 892,826.

Specification of Letters Patent.

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Application filed December 27, 1907. Serial No. 408,299.

To all whom it may concern:

Be it known that I, IRA L. GRAHAM, a citizen of the United States, residing at Payne, in the county of Paulding and State of Ohio, have invented a new and useful Reinforced Concrete Post, of which the following is a specification.

This invention relates to concrete fence or other posts reinforced by metal.

The invention has for one of its objects to provide a post of this character so constructed as to possess great strength as compared with the mass of material required and lightness of the post, and which can be firmly planted in the soil.

Another object of the invention is the provision of a concrete post which is hollow at one side substantially throughout the entire length thereof and formed with a horizontal web at the bottom so that earth can be tamped within the hollow of the post where the latter is planted in the earth, whereby the soil forms a key to firmly anchor the post in position.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention, Figure 1 is a perspective view of the post used in a wire fence construction. Fig. 2 is a central longitudinal section thereof showing the post adapted for rail fence construction. Fig. 3 is a transverse section on line 3—3, Fig. 1.

Similar reference characters are employed to designate corresponding parts throughout the several views.

Referring to the drawing, A designates the post which is composed of concrete or other plastic material formed in a suitable mold and preferably tapering from its base to the top. The post is hollow and open at one side, the cross section thereof being U-shaped. Embedded in the concrete and extending from one end of the post to the other is a metal reinforce 1 conforming substantially to the transverse outline of the post and extending from the corner A to the corner B, Fig. 3, the reinforce being a perforated metal sheet, as shown, or any other approved rein-

force, as desired, the perforations 2 serving to provide a bond between the concrete inside and outside of the reinforce.

The post is formed with a top web 3 that constitutes a cap and with a bottom web 4 extending horizontally across the end so as to form an abutment upon which the soil can be tamped for the purpose of preventing the post from working loose in a vertical direction. In setting up the post, a hole is dug in the earth in the usual manner and the larger end of the post inserted therein, after which the soil is filled in around the post and thoroughly tamped. Not only is the earth tamped around the outside of the post but also in the hollow thereof on top of the bottom web or plate portion 4, so that the earth compressed in the hollow forms a sort of key that coöperates with the upward taper of the post to firmly anchor the latter in position.

In holding the post, horizontal apertures 5 are provided for the reception of bolts 6, Fig. 1, which secure the wires 7 of the fence to the post. The bolts are formed with eyes 8 through which the wires are passed. The threaded ends of the bolts project rearwardly through the openings 5 and receive fastening nuts 9. By tightening the nuts, the wires 7 can be bowed into the hollow of the post as shown in Fig. 3 and thus prevent the wires from slipping longitudinally when they are placed under tension during the stringing of the fence. In a rail fence, as shown in Fig. 2, the rails 10 are secured to the post each by a pair of bolts 11 that extend forwardly through apertures 12, the apertures being arranged to register with the perforations 13 of the reinforce. A post of this character is strong and durable, requires a minimum of cement, and is comparatively light.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described the invention, what I claim is:—

1. A post comprising a body molded of plastic material and of U-shaped cross section and formed with a transverse web at the base extending across the hollow of the body, a reinforce embedded in the body and extending from one end to the other and conforming to the transverse cross section thereof, and means securing a fence structure thereto.

2. A post comprising a body molded of concrete material and hollow and open at one side throughout approximately the entire

length thereof and provided with horizontal webs at the top and bottom extending across the hollow of the body, the said body being larger at its bottom and tapering upwardly and provided with horizontal openings, a metal reinforce embedded in the body, and bolts passing through the openings and through the reinforce for securing fence wires or the like to the post.

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Attest:

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