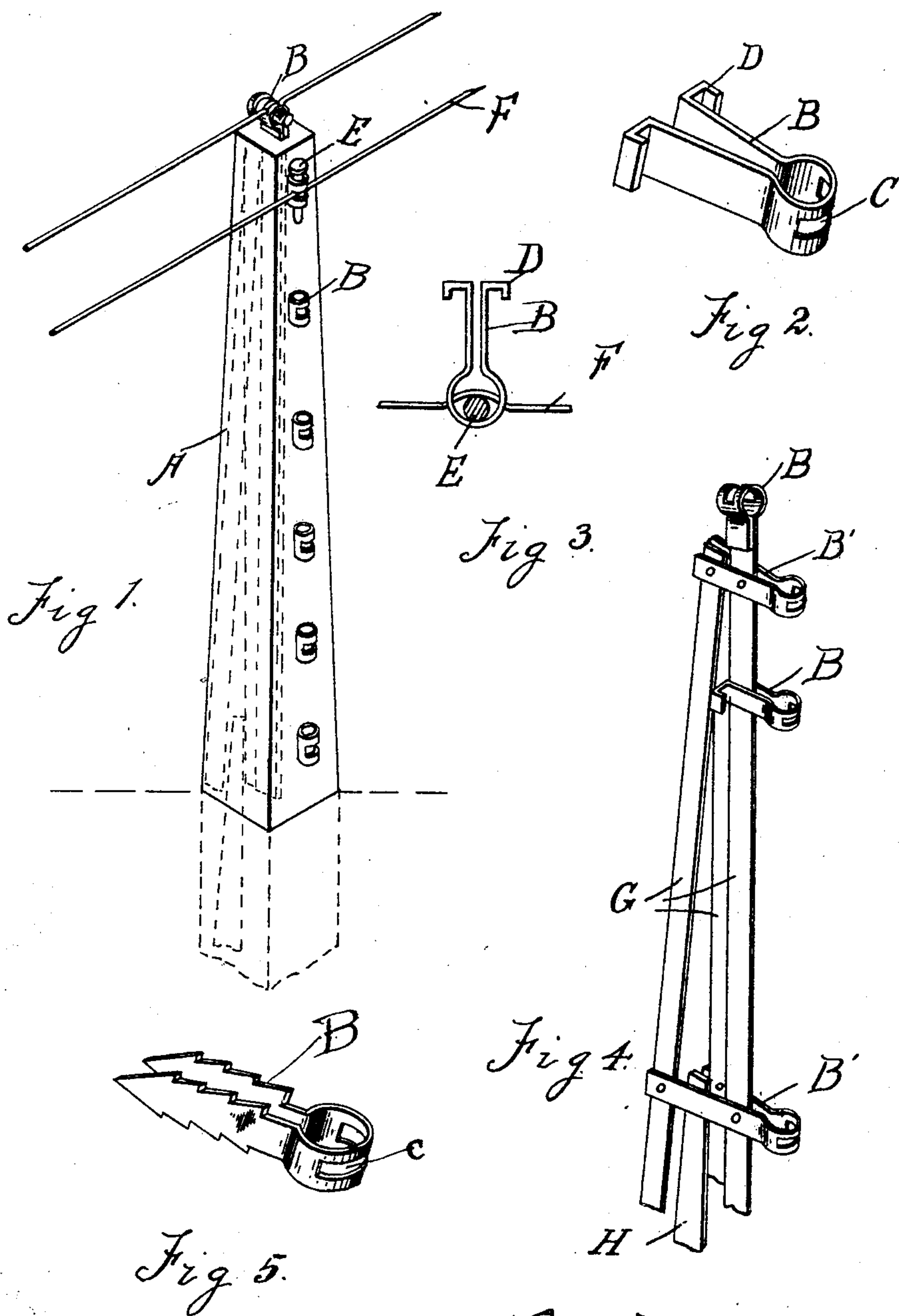


No. 803,706.

PATENTED NOV. 7, 1905.

H. McMASTER.  
CEMENT POST FASTENING.  
APPLICATION FILED AUG. 10, 1904.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

HENRY McMASTER, OF DETROIT, MICHIGAN.

## CEMENT-POST FASTENING.

No. 803,706.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed August 10, 1904. Serial No. 220,216.

*To all whom it may concern:*

Be it known that I, HENRY McMASTER, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Cement-Fence-Post Fastenings, of which the following is a specification.

This invention relates to a fastening to be used in connection with a cement or other fence-post, and has for its object to provide a means of attaching wires to the post in such a manner that they can be readily removed without injury to the fastening and the fence.

It is the further object of this invention to provide a system of reinforcement in connection with the fastenings and to make them in such a form that they can be readily placed in proper position in the manufacture of the post.

It is a further object of the invention to make these fastenings in such a manner that the wires will be securely held at these points and will not be movable in the fastenings. These I attain by the novel construction and combination of parts hereinafter more fully described and claimed.

In the annexed drawings, constituting a part of this specification, Figure 1 is a perspective view of a post, showing the fastenings and method of securing the wires thereto. Fig. 2 is a view of one modification of my fastening-clip. Fig. 3 is a sectional view of the clip, showing the wire kinked and held in position by the pin. Fig. 4 is a view of these fastenings in combination with metal reinforcement. Fig. 5 is a modified form of my fastening-clip and is adapted to be used in connection with wood or other posts.

The gist of the invention consists in providing a slotted recess for the reception of the fence-wires and of having shoulders on the inner extremities of the slot at such a point that the wire is kinked when the pin-fastening is inserted. In this manner a positive attachment is made at each post, so that the strain of the fence is evenly distributed and is not transmitted to the end posts.

Similar letters refer to like parts throughout the different views.

A is the body of the post, which preferably would be made of concrete, though may be made of any other material, such as wood, especially when the modified form of the fastening is used.

B is a metal clip which consists of a looped portion which is provided with the slot C. The exterior ends of this metal clip in one modification of my invention are provided with the hooks D to form a better contact with the post when a cementitious material is used.

E represents the pins which hold the wires F in position. As more particularly shown in Fig. 3, the wire F when placed in the slot C strikes against the inward shoulders and will be kinked either by striking with a punch or by inserting the pointed end of the pin E and driving it in position. It will be observed that the slot C should not extend in as far as the shanks of the clip B, but instead should form a slot somewhat less than the combined width of the wire and the diameter of the pin.

A modified form of my invention is shown in Fig. 4, in which G represents a number of longitudinal reinforcing members, at the upper end of which is attached one of the clips B'. Near the lower end is also attached a second clip B' by riveting or other suitable means. These would be arranged so as to register with the upper and lower wires of the fence. Any desired number of additional clips B can be placed at proper intervals to receive and hold the other wires of the fence.

One of the reinforcements G may be extended upward and turned upon itself to form a clip for the top fence-wire. In this way the metal reinforcement for the post can be constructed so that it can be easily handled and readily inserted in the post in the proper position.

The reinforcements G may extend the entire length of the post or, if preferred, may terminate at their lower extremities a short distance beyond the ground-line. In this case I would insert additional reinforcements H, overlapping the lower extremities G and forming at the ground-line, where there is the greatest stress, the double amount of reinforcement. The adhesion of concrete to steel being several hundred pounds to the square inch will make a sufficient union between the metal and the concrete, so that any method of fastening the lower reinforcements to the upper section will not be necessary. If preferred, the intermediate clips B may be hooked to one of the strips G and by spring-pressure against one of the strips G be held in position while the post is being made. This arrangement is especially advantageous



and facilitates the work greatly over having the clips separate and loose.

If desired, the modification of the clip as shown in Fig. 5 can be used in a wood post or in a cement post containing a wooden strip. Preferably where the clip is intended for a wood post the edges of the shanks would be barbed, so that they would not easily be withdrawn from wood. After the posts have been made with the clips properly spaced the fence is stretched in position and the wires inserted in the slots C. The pins E may be ordinary wire nails or any convenient shaped piece of metal, so that they can be driven in position and withdrawn when it is desired to remove the fence.

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

1. The combination with the cementitious body material of a fence-post, of a plurality of fastenings consisting of sections of metallic bands bent upon themselves and having their inner ends hooked, of slots in the opposite ends, of shoulders on the inner portion of the slots terminating outside of the cementitious body against which the fence-wires are kinked

by means of the fastening-pins, substantially as described.

2. In a concrete fence-post the combination with the cementitious body material, of a plurality of flattened key-shaped metal portions having inwardly-projecting slots at their outer or bent ends, the opposite ends of the key-shaped metal portions being hooked, the shoulders at the inner portion of said slots disposed outside of the face of the post, of pins in front of the wires inserted in said slots of sufficient diameter to kink said wires, substantially as described.

3. In a fence-fastening the combination of longitudinal stays or reinforcements, of a looped and slotted portion on the upper end of one of said stays, of one or more looped and slotted clips secured to the longitudinal reinforcements, substantially as described.

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

HENRY McMASTER.

Witnesses:

ALEX M. REA,  
R. S. HARPER.