No. 827,224. PATENTED JULY 31, 1906.

O. FLEMING.

CEMENT POST FOR WIRE FENCES.

APPLICATION FILED OCT. 19, 1905.

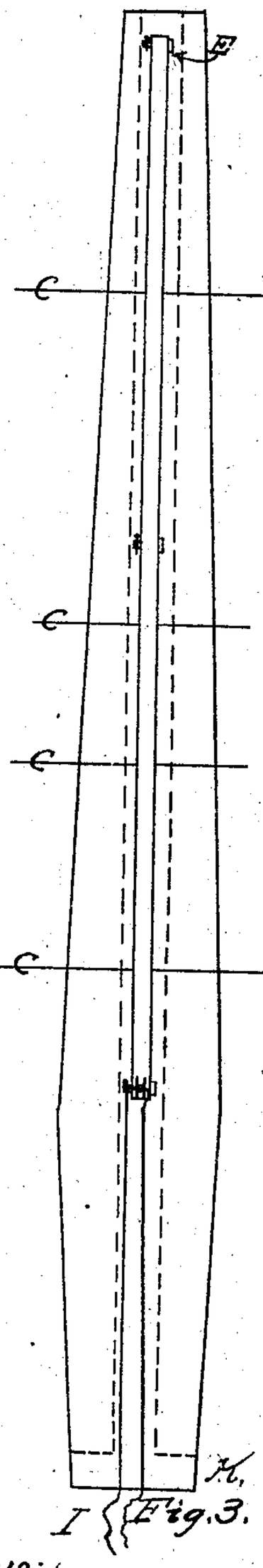

Fig. 3.

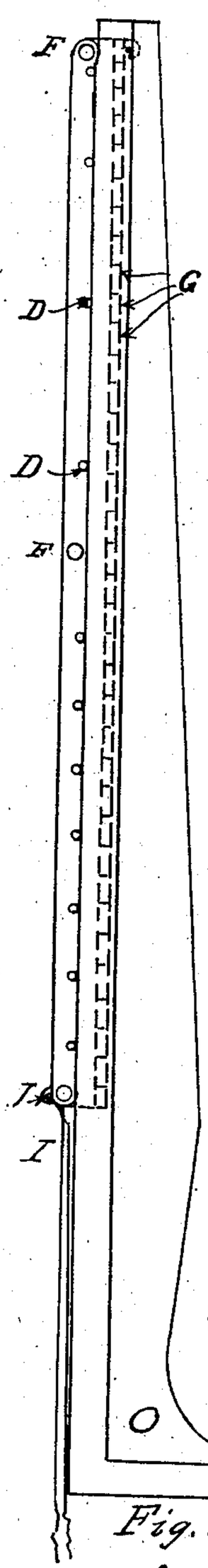

Fig. 2.

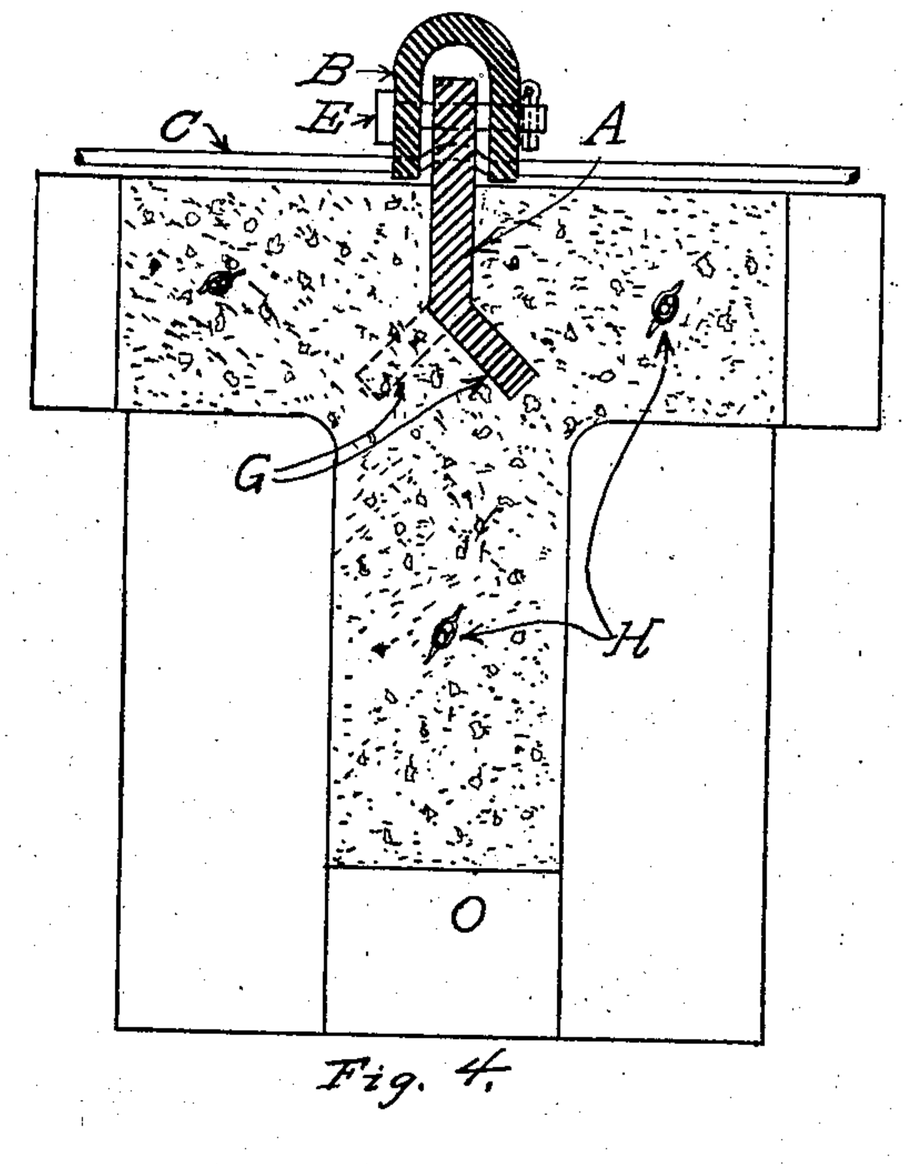

Fig. 4.

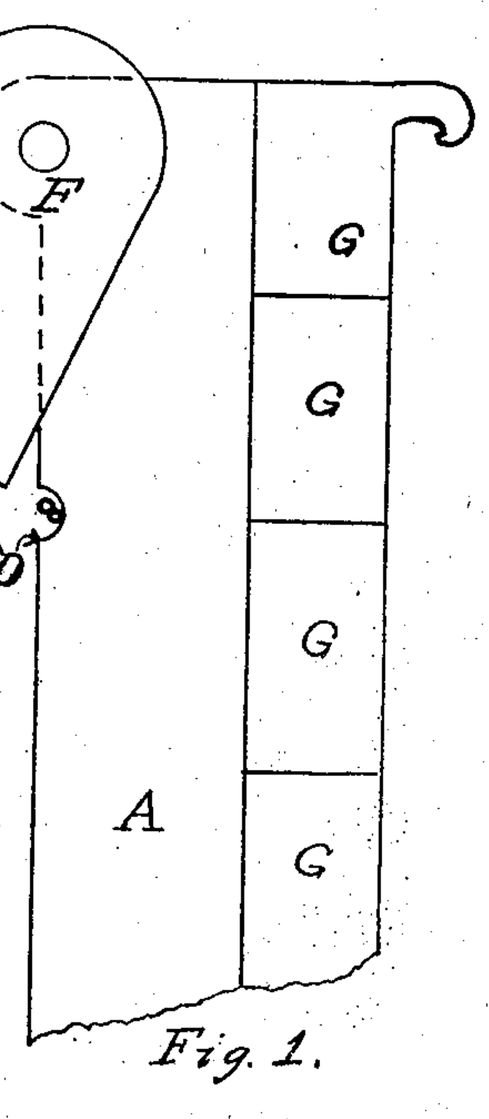

Fig. 1.

Witnesses.

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CEMENT POST FOR WIRE FENCES.

No. 827,224. Specification of Letters Patent. Patented July 31, 1906.

Application filed October 19, 1905. Serial No. 283,538.

To all whom it may concern:

Be it known that I, ORIN FLEMING, a citizen of the United States, residing at New Sharon, in the county of Mahaska and State of Iowa, have invented certain new and useful Improvements in Cement Posts for Wire Fences, of which the following is a specification.

My invention relates to improvements in cement posts for wire fences.

The object of the invention is to improve the construction of cement posts for wire fences so as to provide a simple and inexpensive one combining the greatest amount of strength and durability with the least expenditure of material and one that will successfully resist the raising and loosening action of frost or the rubbing of stock and one to which any kind of wire fence may be quickly and firmly attached or readily removed in taking down fences.

A further object of the invention is to lessen the danger of stock being killed by lightning by contact with or close proximity to wire fences during electrical storms.

I attain these objects by the mechanism illustrated in the accompanying drawings, in which—.

Figure 1 illustrates the mechanism for attaching or fastening the wire to the post. Fig. 2 is a side view of the post, showing the mechanism for fastening the wire to the post when locked in position for that purpose and the cement foot K at bottom of post that prevents frost from lifting or loosening the same or stock from rubbing or pushing it out of an erect or solid position. Fig. 3 is a front or face view of the post. Fig. 4 is a cross-section of the post, showing the shape and outline of the post with a strand of twisted barbed wire H molded in each arm of the T for greater strength and the manner in which the receiving-arm of the notched bar to which wire is fastened is embedded in the post and the manner in which outside arm or clamp B of the fastening notched bar goes over the inside arm A and presses upon the wire C.

Like letters of reference designate corresponding parts in all figures of the drawings.

The post, as shown in Figs. 2 and 3, rests upon a cement foot K, which is molded on post and forms a part of post. The post is made T-shaped, as shown in Fig. 4. The rib O, molded to middle of post on back, forming a brace to main post, begins at outer extremity of the cement foot K and curves inwardly and upwardly in regular half-circle for about eight inches and then gradually expands outwardly to ground-line and from ground-line tapers gradually to a feather-edge at the top. This cement foot K and the form of the rib O below the ground-line, as stated above and shown in Fig. 2, prevents the post from being raised or lifted by the action of frost or being raised or loosened by the pushing or rubbing of stock. From bottom of post to ground-line the same expands gradually on back rib and two sides. From ground-line to top of post the same tapers gradually from all sides except the face side, thus giving the post the greatest strength at the point where it is most needed—viz., the ground-line.

Changes in form, proportion, size, and minor details of construction within the scope of the appended claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

The arm A is a steel or malleable plate about three inches wide, ending in a curved hook near top of post, with inner edge serrated and each alternate flange or tooth G bent in opposite direction. The exposed edge is notched with half-circle notches D at suitable distances for receiving and holding the wire. Just opposite curved hook near top of A at middle of A and just above lower end of A at ground-line the complement of the half-circle notch is added, making the full circle F, as shown in Fig. 1. This bar A is molded in the cement post, as shown at Fig. 4, leaving the half-circle notches D and the full circles F exposed to a little more than their full depth on front side of post. This bar A is securely held in place by the flanges or teeth G of the serrated edge, being bent in opposite directions and buried in the cement post, as shown in Fig. 4. The bar B, as shown in Fig. 1, is U-shaped, made of steel or malleable iron. Near top, at middle, and near lower end of arm B are full circles F, corresponding with the full circles F in arm A, making corresponding eyes in each arm A and B. Through the circles F near the top of A and B is placed a bolt E, upon which B works upon A as a hinge. The notched U-bar B is lifted on this hinge till wire is stretched in position on post. Then B is lowered upon A and further fastened to A by bolts E through the corresponding eyes or circles F at middle and near bottom of said

bars, and the arm B is thus securely fastened to the arm A in three places.

The half-circle notches D keep the wires from being worked up or down on the post, and the sides of the U-bar B pressing upon the wire C makes an abrupt bend and prevents the wire from slipping or loosening. This makes a sure and convenient clamping or fastening of the wire to the post.

At the bottom end of B is a projection containing an opening or hole J, through which a copper wire I is run, and the two ends of the wire then buried in moist earth, which makes a lightning-conductor. E may be a bolt, nail, or wire staple or rivet.

The post may be made of cement, concrete, artificial stone, or other plastic material.

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

1. The combination of a post having a T-shaped cross-section and provided with a cement foot at bottom with a rib or brace in middle of post resting on this foot and so shaped as to form a pocket or hollow above the foot; a clamping-plate with inner arm securely molded in the post and having on outer edge half-circle notches forming a seat for the wire, the outer arm of the plate U-shaped and joined to inner arm by a bolt-hinge at the top and adapted to press upon the wire at either side of the inner arm forcing the wire into the receiving-notches and making an abrupt bend on either side to prevent wire from slipping or moving up and down; a fastening device for adjustably securing the clamping-plate to the post and a copper wire running from clamping-plate to moist earth to form a lightning-conductor.

2. The combination of a post provided with a foot and brace forming a pocket or hollow at bottom, clamping-plates with inner arm molded in post and fitted with notches for receiving wire and outer arm U-shaped and adapted to force wire into the receiving-notches and to form an abrupt bend in wire on each side of inner arm of clamping-plate to prevent wire from slipping, fastening means for adjustably securing outer arm of clamping-plate to post, and wire connecting clamping-plate with moist earth to form a lightning-conductor all substantially as heretofore described.

In testimony whereof I have affixed my signature in presence of two witnesses.

ORIN FLEMING.

Witnesses:
L. T. SHANGLE,
ANNIS WICKERSHAM.