(No Model.)

J. L. QUACKENBUSH.

FENCE POST.

No. 345,075. Patented July 6, 1886.

Fig. 1.

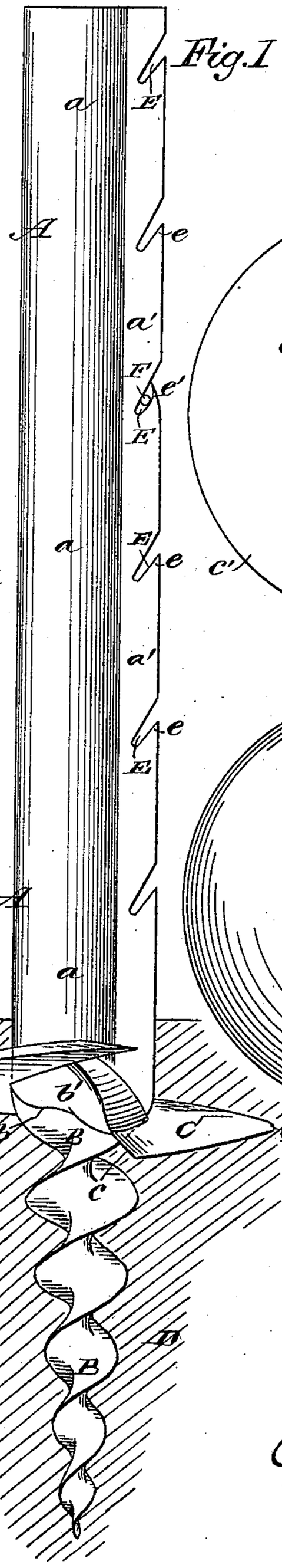

Fig. 2.

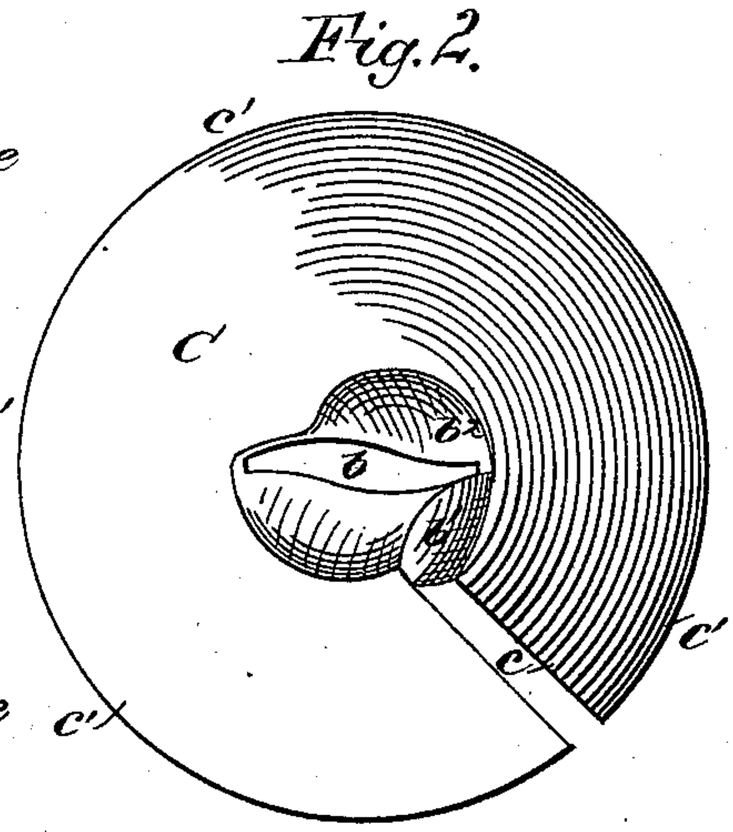

Fig. 3.

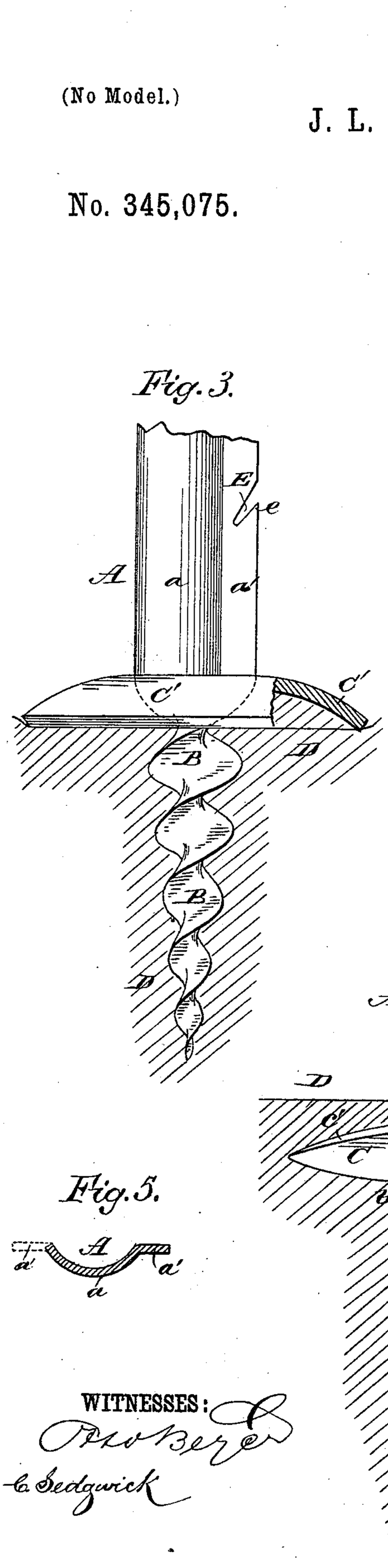

Fig. 4.

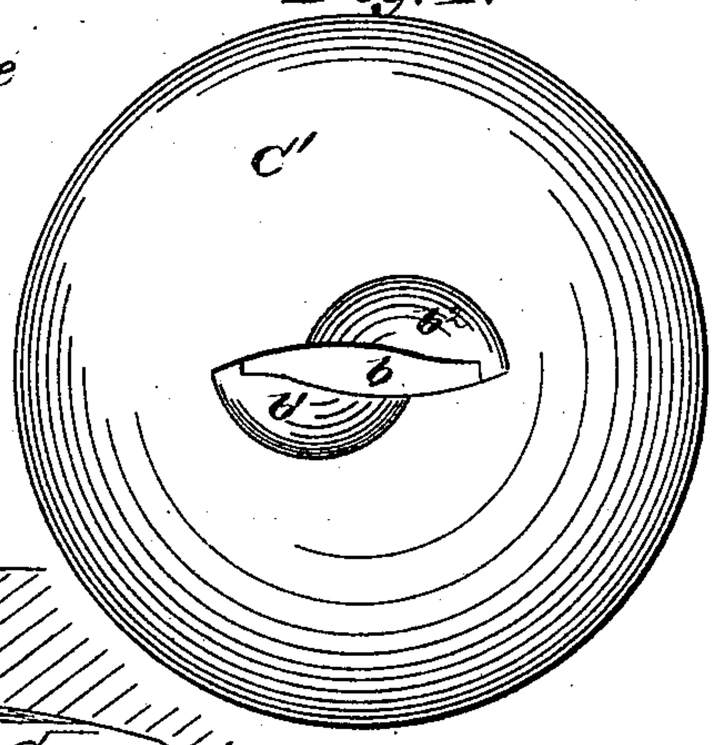

Fig. 5.

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JAY L. QUACKENBUSH, OF PORTLAND, OREGON.

FENCE-POST.

SPECIFICATION forming part of Letters Patent No. 345,075, dated July 6, 1886.

Application filed September 16, 1885. Serial No. 177,249. (No model.)

To all whom it may concern:

Be it known that I, JAY L. QUACKENBUSH, of Portland, in the county of Multnomah and State of Oregon, have invented a new and Improved Fence-Post, of which the following is a full, clear, and exact description.

My invention relates to metal posts for fences, and has for its object to promote the stability of the posts, and also to provide a post that is light, strong, durable, and inexpensive, and which shall give substantial support to the fence-wires.

The invention consists in certain novel features of construction and combinations of parts of the fence-post, all as hereinafter fully described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of my improved fence-post as set into the ground. Fig. 2 is a plan view of the screw ground-plate. Fig. 3 shows the lower end of the post with a surface ground-plate applied. Fig. 4 is a plan view of the surface ground-plate, and Fig. 5 is a cross-section of the upper part of the fence-post.

The fence-post is made with a bar, A, of plate-metal, which is rolled, pressed, or cast at its upper or above-ground portion in concavo-convex form, as at *a*, and with a flange, *a'*, along one edge; but the bar may have a flange along its other edge also, as indicated by the dotted lines at *a'* in Fig. 5. The lower or embedded part of the post-bar A is formed into a screw, B, which is tapering, and is pointed like a gimlet, so as to enter the ground easily, and the screw is sharpened all along the periphery of its thread, so that it will not lift the earth much, if any, but will compress the earth tightly around the threads, to make a more secure fastening for the post in the ground by the screw than would a screw having a blunt peripheral edge, or otherwise shaped so it would lift the earth considerably and force it away from the threads.

The letter C indicates a ground-plate, which is made separate from the bar A, and of metal, and in helical form, so as to constitute about one complete turn of a screw, the forward edge, *c*, of which is sharpened, so that after the plate C is run on the screw B as far as it will go the post-bar may be screwed into the ground D until the plate C rests by its entire under face on the ground-surface, or until the entire plate is embedded in the ground, as shown in Fig. 1. The peripheral edge *c'* of the helical ground-plate C is sharpened, so that the plate lifts the earth little or none, and packs the earth solidly about it, to make a strong and reliable anchor to the upright part A B of the post. The central aperture, *b*, of the plate C is elongated, and the opposite marginal portions, *b' b²*, of the plate at the aperture *b* are shaped to form a nut corresponding with the thread of the screw B, so that the post-bar A B cannot be drawn from the embedded ground-plate C, but must be unscrewed to remove it therefrom. The flange *a'* of the post-bar A is notched or slotted angularly, as at E, and the fence-wires F are passed one into each of the notches, and the tongues or points *e* of the flange then are hammered across the notches, so as to bind the wires F tightly therein and to the post, as shown at *e'* in Fig. 1. Wood or metal strips may be woven into the wires between the posts as a warning to persons or stock that they are approaching a barrier and to prevent sagging of the wires.

In Figs. 3 and 4 the ground-plate C', instead of being made helical to screw into the ground like the plate C, above described, is made in concavo-convex form, and has a central elongated aperture, *b*, with margins *b' b²*, shaped to form a nut for allowing the plate to be screwed on the post-bar A as far as it will go, and then the end B of the post will be screwed into the ground D until the concaved lower face of the plate C' is drawn down on and into the ground sufficiently to cause the earth to fill and pack hard into the concavity of the plate, as in Fig. 3, whereby the air will partially be expelled from below the plate, and the air-pressure on top of the plate assists the screw B and the actual bearing of the under side of the plate on the ground to hold the post erect and firmly to place.

It is evident that the concavo-convex cross-sectional form of the part *a* of the post-bar A gives the post great strength, and the method of securing the fence-wires in the flange *a'* is very

simple and effective, and that whichever of the ground-plates C or C′ be used the posts will stand firmly to give substantial support to the fence-wires. Furthermore, the entire fence-post is very light, strong, and durable, and may be made at a low cost.

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

1. The combination, in a fence-post, of a post-bar, A, provided with a tapering screw, B, at its lower end, and a separable ground-plate, C, having an aperture, *b*, marginally shaped at *b′ b²*, substantially as shown and described, whereby the ground-plate may be screwed on the post-bar and the post-bar then screwed into the ground, to clamp the ground-plate thereto for steadying the post, as set forth.

2. The combination, in a fence-post, of a post-bar, A, provided with a tapering screw, B, at its lower end, and a separable ground-plate, C, having an aperture, *b*, marginally shaped as at *b′ b²*, and said plate C having a helical form, substantially as shown and described, whereby the ground-plate may be screwed on the post-bar, and the post-bar and ground-plate may be screwed into the ground, as and for the purposes herein set forth.

3. The combination, in a fence-post, of a bar, A, provided with a flange, as at *a′*, having slots E, and having a tapering screw, B, at its lower end, and a separable ground-plate, C, having an aperture, *b*, marginally shaped as at *b′ b²*, substantially as herein shown and described, and for the purposes set forth.

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Witnesses:
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