

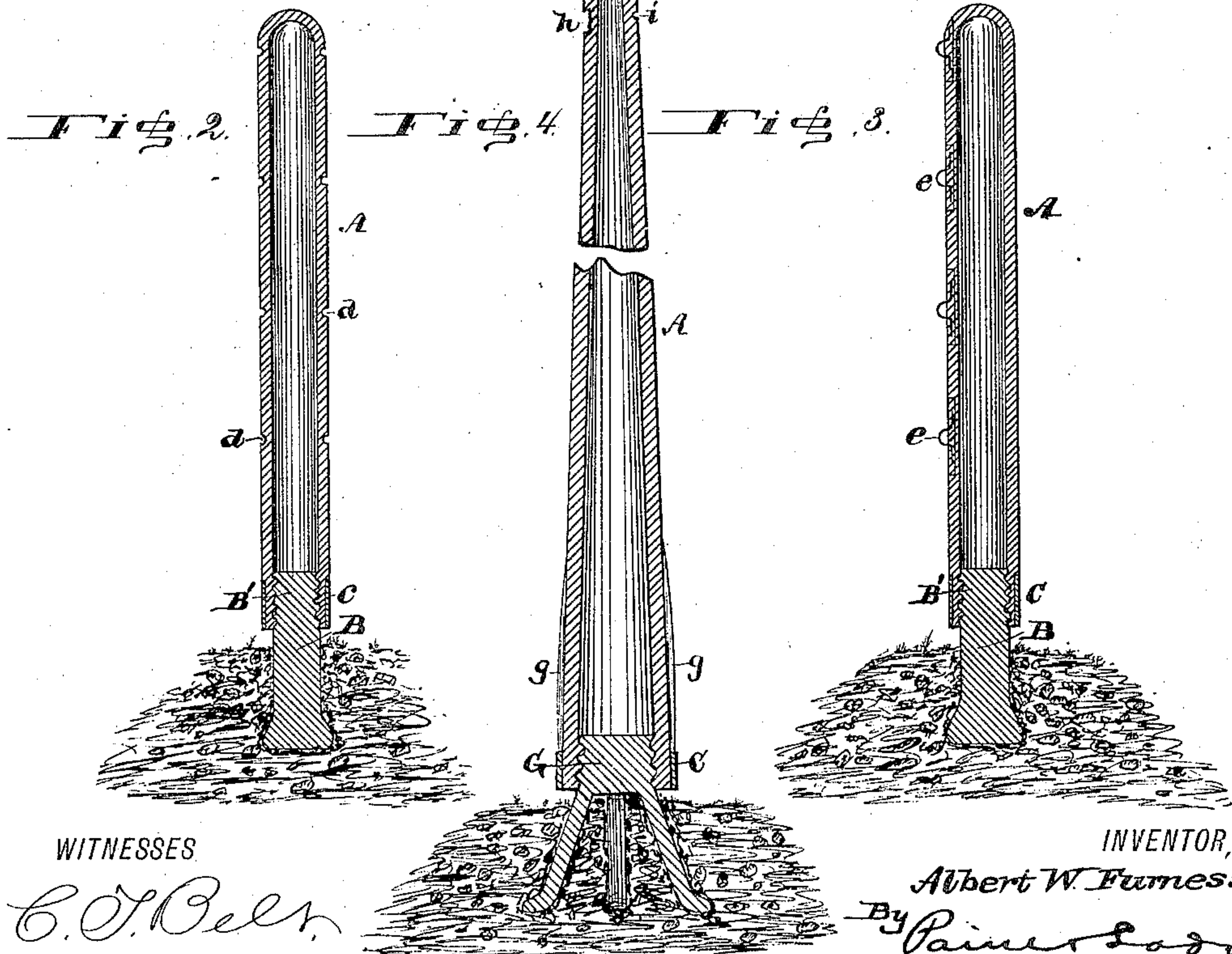
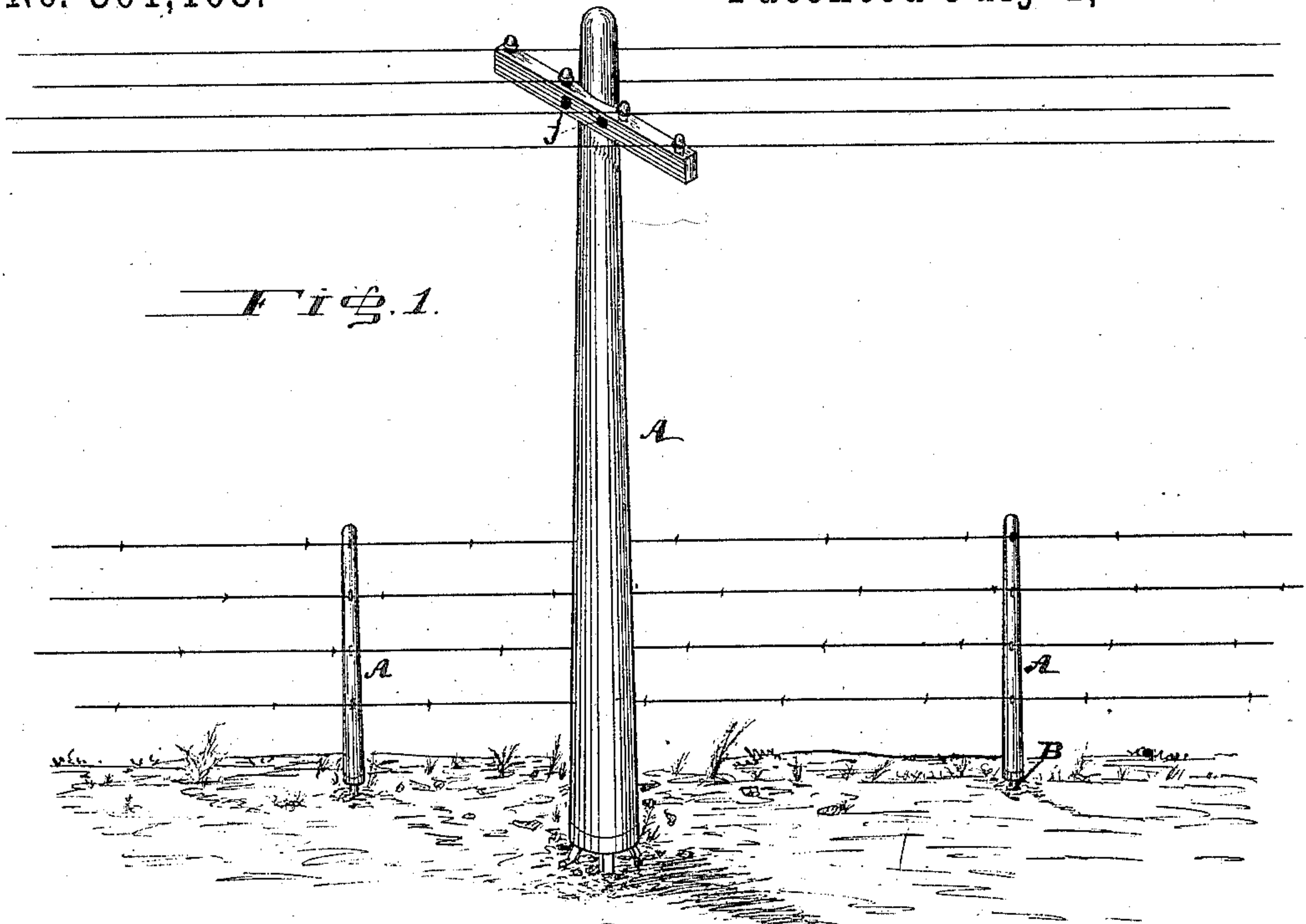
(No Model.)

A. W. FURNESS.

FENCE POST.

No. 301,108.

Patented July 1, 1884.



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UNITED STATES PATENT OFFICE.

ALBERT W. FURNESS, OF FURNESSVILLE, INDIANA.

FENCE-POST.

SPECIFICATION forming part of Letters Patent No. 301,108, dated July 1, 1884.

Application filed September 5, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALBERT W. FURNESS, a citizen of the United States, residing at Furnessville, in the county of Porter and State of Indiana, have invented certain new and useful Improvements in Fence-Posts and Telegraph-Poles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention has for its object to furnish telegraph, signal, and other poles, and fence, trellis, and other posts, which are simple, durable, and light, and can be cheaply manufactured.

To this end the invention consists of a post or pole made of paper or straw-board pulp molded into a hollow-body form, and united with a solid base or foot-piece made of glass, metal, or other hard, indestructible material, as hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view showing fence-posts and telegraph-poles made according to my invention. Fig. 2 is a vertical sectional view of a fence-post encircled at the bottom of its paper body by a metallic band, and having circumferential grooves for the retention of fence or other wires. Fig. 3 is a vertical sectional view of a hollow paper fence-post having staples and their boxes embedded therein. Fig. 4 is a sectional view of a telegraph-pole having vertical ribs at its lower end and set upon a tripod base.

The body portion A, whether of a pole, post, or stake, is made hollow, and is formed of paper or straw-board pulp molded upon suitable cores, which are removed after the pulp has become hard. The paper body is closed at the top and left open at the bottom, to permit it to be set upon a detachable base or foot portion, B, which is constructed of glass, earthenware, or other vitreous material. This foot or base piece is, in fence-posts, generally made in the form of a solid cylindrical body having an enlargement or bulb at its lower end, and provided with a screw-threaded top portion, B', which enters the open bottom

or base of the paper body, and serves as a medium for uniting these two component members of the post.

The post shown in Fig. 2 has an encircling metallic band or sleeve, C, at its lower end, which serves to give increased strength or rigidity at this point, and prevents the splitting of the post by the foot or base portion B'. This sleeve is applied to the post when the latter is still in a plastic state, and when hard it is firmly embedded therein. Circumferential grooves *d*, located at suitable intervals apart, are also made in the post shown in Fig. 2, for the reception of the fence-wires, the latter being looped or twisted around the post.

In Fig. 3 I have shown a post which has staples *e* or hooks for retaining fence-wires, these staples being embedded in the post during the process of manufacture or molding, and firmly retained when the material becomes hard. For telegraph-poles such as are illustrated in Fig. 4, I provide a base or foot piece, G, which is generally composed of three arms diverging from a solid top piece that is screw-threaded, or is provided with a tenon entering the bottom of the post. This foot-piece, of a tripod shape, is also made of glass or analogous material. In this figure I have also represented a post having vertical strengthening-ribs *g*, that extend from its lower end to any desired point above the same. The upper portion of a pole designed for telegraphic purposes is formed with a groove or depression, *h*, or with a series of them, for the reception of the insulator arm or arms, as is shown in Fig. 1. Other grooves, *i*, extending from the grooves *h*, serve for the reception of the clasps or clevis-bolts *j*, that hold the insulator-arms in position.

A post or pole made of a paper body and a vitreous base is strong, durable, and light, and is not affected by moisture or atmospheric changes, and for this reason is far superior to the posts and poles heretofore employed.

I am aware that it has been heretofore proposed to manufacture posts and poles of paper, and that hollow-tubular posts have been fitted onto solid base-blocks, and I do not claim the same, broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. A post consisting of a hollow paper body

having a metallic band at its lower end and an internal screw-thread, in combination with the solid base or foot piece having a screw-threaded top, substantially as herein set forth.

5 2. The hollow paper body having vertical ribs at its lower end and a groove or grooves at its upper end, in combination with the tripod base or foot piece, substantially as herein set forth.

10 3. The hollow paper body having vertical

ribs at its lower end, in combination with a base attached to said hollow body, substantially as and for the purpose set forth.

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

ALBERT W. FURNESS.

Witnesses:

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