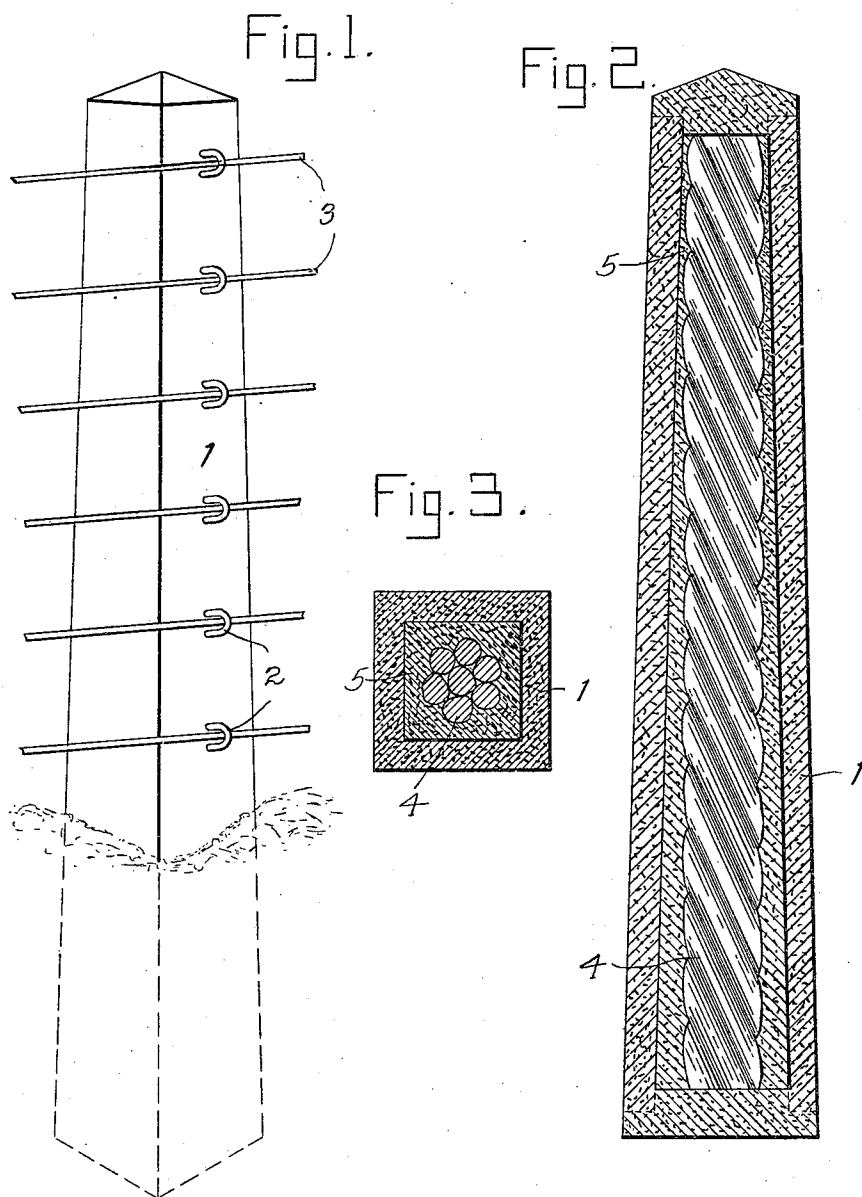


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CONCRETE POST.

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962,340.

Patented June 21, 1910.



Witnesses

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CONCRETE POST.

962,340.

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To all whom it may concern:

Be it known that I, GEORGE C. HALE, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Concrete Posts; 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.

My invention relates to concrete posts particularly adapted for use in fences.

It has for its object to reduce the cost of constructing a concrete post without impairing its ability to withstand the action of the elements, that is to say, without rendering it less durable than more expensive posts.

The invention consists in forming the shell or outer casing of the post of a high quality of concrete, placing a core within said shell, filling in between the core and shell with a grouting of an inferior and less expensive grade of concrete and finally sealing or closing the ends of the shell with concrete of the higher grade, like that used for making the shell. By adopting this construction, I am able to use a cheaper grade of concrete, made of Louisville cement or any good domestic cement which is not of the quality that would withstand the elements, for the interior of the post, thereby saving considerable expense over making the post entirely of Portland or high grade cement. The shell is preferably made of Portland cement as well as the closures at the ends thereof so that the core and inferior concrete is preserved from any exposure.

The invention also consists of a core composed of twisted fiber which is inexpensive, but has great tensile strength. Any fibrous material may be used, such as flax, straw, brush, willows, hay or cornstalks. It is essential that the fiber be twisted in order to give it the requisite strength, the same principle applying here as in the twisting of cotton for making thread, cords and ropes.

The invention also consists in the features of construction and combinations of parts hereinafter described and specified in the claims.

In the accompanying drawings, illustrating the preferred embodiment of my invention: Figure 1 is an elevation of the post

constructed in accordance with my invention. Fig. 2 is a central vertical section thereof, and Fig. 3 is a cross section.

Referring more particularly to the drawing, in carrying out my invention, I first mold or form the shell 1 with an opening through the center thereof. Staples 2, or other suitable devices may be molded in the concrete and left projecting therefrom for securing the fence wires 3.

After the shell has hardened, the core, comprising a section of cable made of twisted fiber, is drawn through the center of the shell and a thin grouting of cement or concrete is forced into the shell and around the cable by pressure, thus forming a strong reinforcement for the post after the concrete or cement has become set. The cable is cut shorter than the post and each end of the latter is capped with concrete or cement which hermetically seals the core and the inferior concrete on the interior of the post from any exposure.

It will be noted that in addition to saving in the amount of high grade cement used, I also reduce the quantity of cement of any grade required by using the large core of inexpensive fibrous material. A fence constructed with this style of fence post should stand for many years and be absolutely free from danger of being destroyed by prairie fires, or fires started along railroads by sparks from locomotives.

I claim:

1. A post consisting of an outer shell of concrete, a reinforcing core, and caps of concrete hermetically sealing both ends of said shell and protecting the core from moisture.

2. A post consisting of an outer shell of concrete, a reinforcing core, a filling of concrete between said core and shell, and caps of concrete hermetically sealing both ends of said shell and protecting the core from moisture.

3. A post consisting of an outer shell of concrete, a reinforcing core, a filling of a different grade of concrete between said core and shell and caps of concrete hermetically sealing both ends of said shell and protecting the core from moisture.

4. A post consisting of an outer shell of concrete, a reinforcing core, a filling of a different grade of concrete between said core

and shell, and end closures of concrete of the same grade as the shell hermetically sealing both ends of said shell and protecting the core from moisture.

- 5 5. A post consisting of an outer tubular shell of concrete, a reinforcing core of twisted fiber occupying substantially half of the space within said shell, and a filling of a different grade of concrete between said core

and shell, and caps hermetically sealing both 10 ends of said shell.

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

GEORGE C. HALE.

Witnesses:

MARTIN J. O'DONNELL,
JAMES C. REIDY.