O. DOUGHERTY.

CONCRETE POST OR POLE.

APPLICATION FILED AUG. 28, 1908.

946,343.

Patented Jan. 11, 1910.

2 SHEETS—SHEET 1.

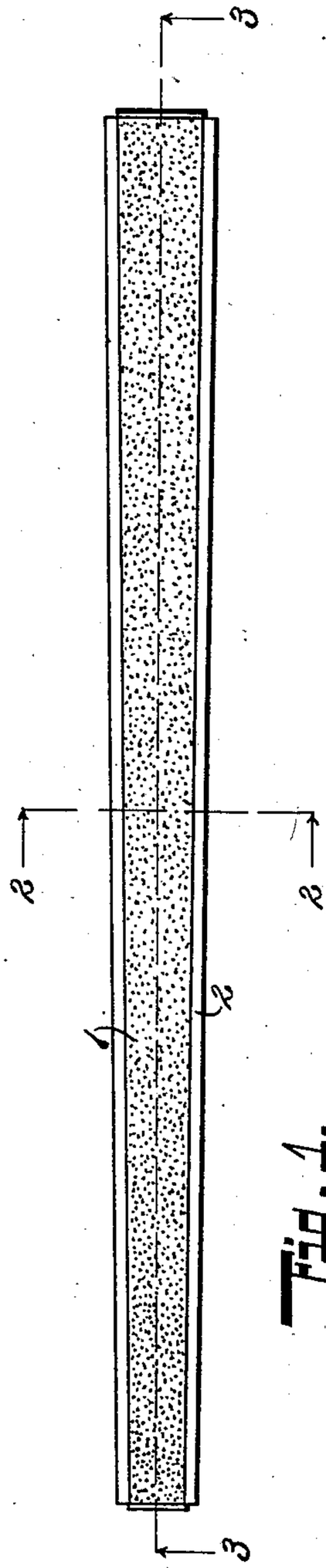

Fig. 1.

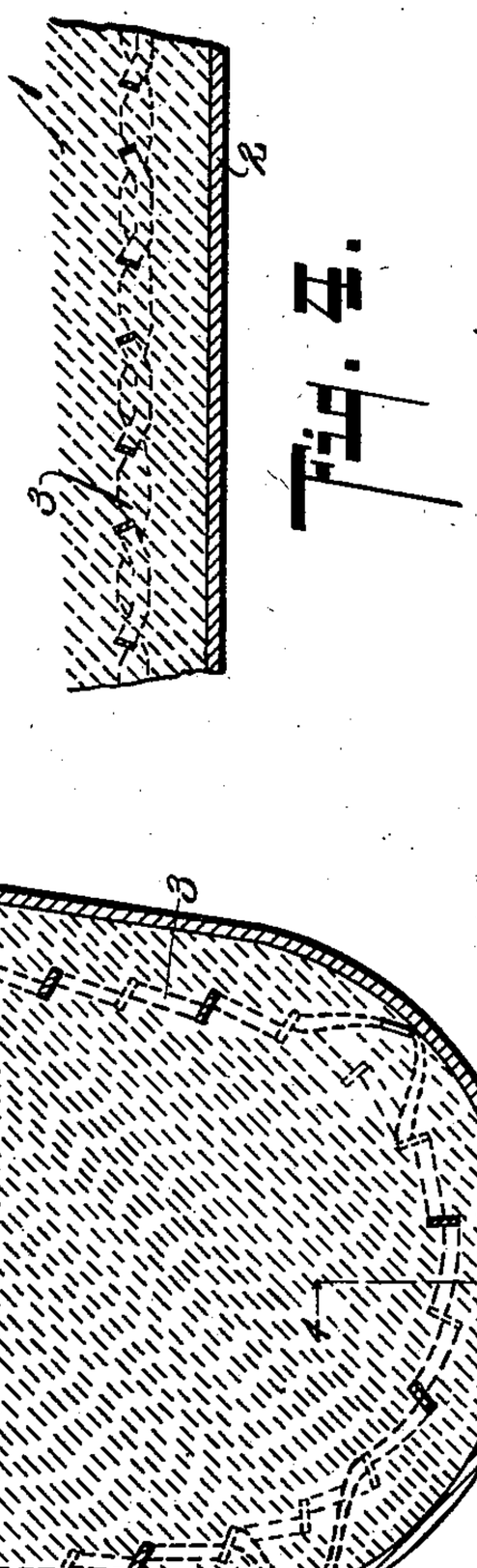

Fig. 3.

Fig. 2.

Witnesses

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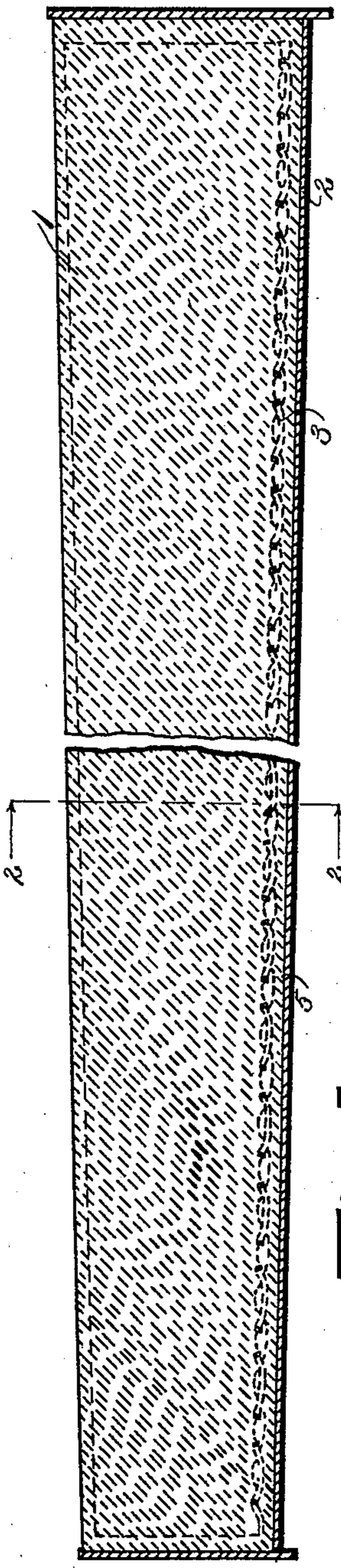


Fig. 5.

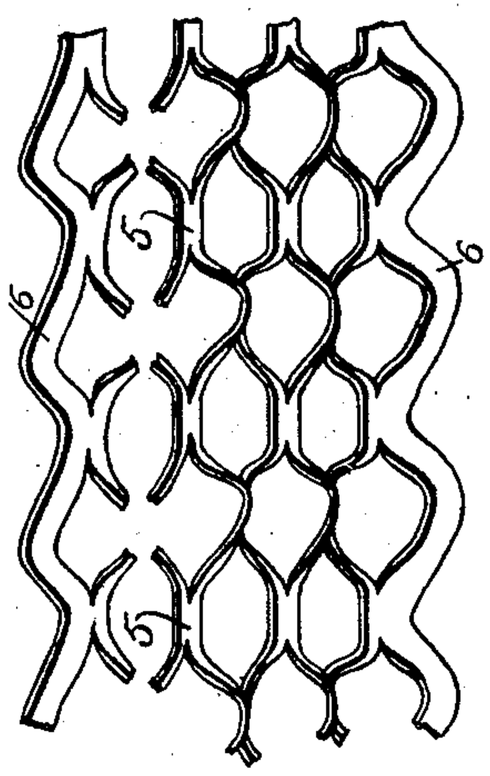
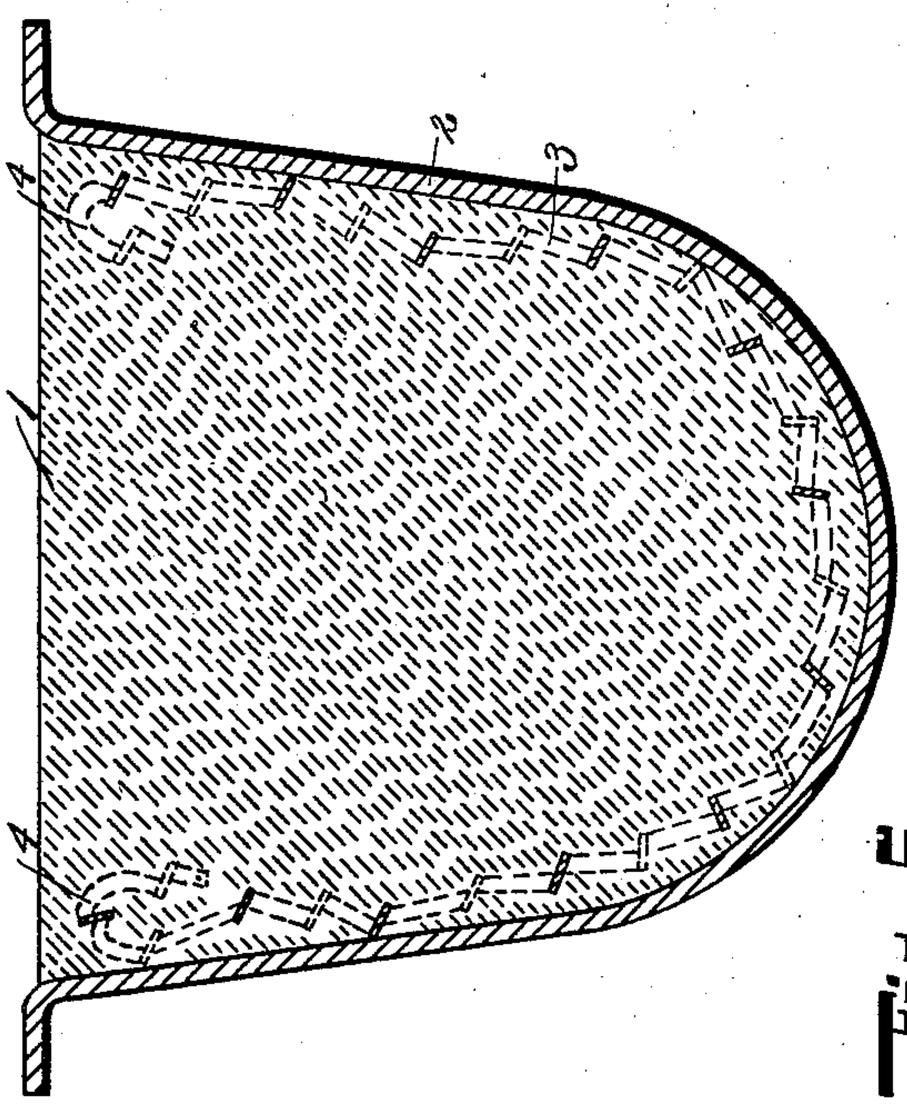


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

ORVILLE DOUGHERTY, OF THREE RIVERS, MICHIGAN.

CONCRETE POST OR POLE.

946,343. Specification of Letters Patent. **Patented Jan. 11, 1910.**

Application filed August 28, 1908. Serial No. 450,780.

To all whom it may concern:

Be it known that I, ORVILLE DOUGHERTY, a citizen of the United States, residing at the city of Three Rivers, St. Joseph county, Michigan, have invented certain new and useful Improvements in Concrete Posts or Poles, of which the following is a specification.

This invention relates to improvements in artificial stone or concrete posts or poles.

The main object of this invention is to provide an improved artificial stone or concrete post or pole, or the like, which is very strong in proportion to its size and the amount of material used therein.

Another object is to provide an improved post, or the like, which is very economical to manufacture, and one in which the reinforce may be very easily placed, requiring no support other than the mold walls during the manufacture of the post.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claim.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which,—

Figure 1 is a plan view of a post embodying the features of my invention, it being shown in a mold in which it is manufactured. Fig. 2 is an enlarged cross section, taken on a line corresponding to line 2—2 of Fig. 1. Fig. 3 is an enlarged detail longitudinal section, taken on a line corresponding to line 3—3 of Fig. 1. Fig. 4 is a detail plan view of a piece of the reinforce. Fig. 5 is an enlarged cross section, showing a modified form of reinforce.

In the drawing, the sectional views are taken looking in the direction of the little arrows at the ends of the section lines, and similar numerals of reference refer to similar parts throughout the several views.

Referring to the drawing, the body 1 of my improved pole or post is preferably U-shaped in cross section, and is formed of a suitable concrete mixture of cement. sand and fine gravel. This I preferably form in a mold 2, which is formed of sheet metal and is U-shaped in cross section, as clearly appears from the drawing. The reinforce 3 is formed of reticulated sheet metal, the strands being flat and arranged at an angle to the surface of the body 1. as illustrated. The reinforce is also preferably U-shaped in cross section and has its edges 4 turned inwardly upon itself to add strength thereto at this point. The reinforce is nearly the same dimension in cross section as the body, so that it lies close to the surface thereof. The reinforce is provided with projecting portions 5 at intervals, which lie substantially flush with the surface of the body, thereby spacing the reinforce relative to the surface of the body, and supporting it during the process of manufacture, the projecting portions resting against the mold walls, as is illustrated in the drawing. This enables the arrangement of the reinforce in the mold and the wet concrete can be shoveled into the mold upon the reinforce, the concrete passing therethrough.—that is, such portions of the concrete as are desirable for the surface of the body will pass through the reinforce. If there should be any coarse gravel or stone in the concrete, it is prevented from reaching the surface of the body by the reinforce. By arranging the strands of the reinforce at an angle to the surface of the body, the greatest strength of the reinforce is secured so that comparatively light material may be used, and the entire body is bound together and strengthened.

In the modified construction shown in Fig. 5, the projecting portions 5 are in the form of slight irregularities in the body of the reinforce, instead of being portions punched out therein, as is illustrated in Fig. 2.

I preferably provide the reinforce with a border 6 at each edge which further strengthens and reinforces the body 1.

While my invention is particularly designed by me for use in fence posts, it is applicable to poles and the like, being especially desirable for use where light, strong posts or poles are desired, as it possesses great strength in proportion to the amount of material used therein, and is capable of withstanding shocks. such as it is likely to receive, when used as a fence post, by animals runninng or pushing against the fence.

I have illustrated my inventions in detail in the form preferred by me. I am aware, however, that they can be varied consider-

ably in structural details without departing therefrom, and I desire to be understood as claiming the same specifically, as well as broadly, as I have indicated in the appended claim.

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

The combination with a concrete body, of a reinforce embedded therein, said reinforce being formed of reticulated metal having outwardly-projecting spacing members at intervals, the outer end of said spacing members being substantially flush with the surface of said body, said spacing members being in the form of off-set loops continuous with said body.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

ORVILLE DOUGHERTY. [L. S.]

Witnesses:

GEO. M. WOLF,

J. P. MCKEY.