

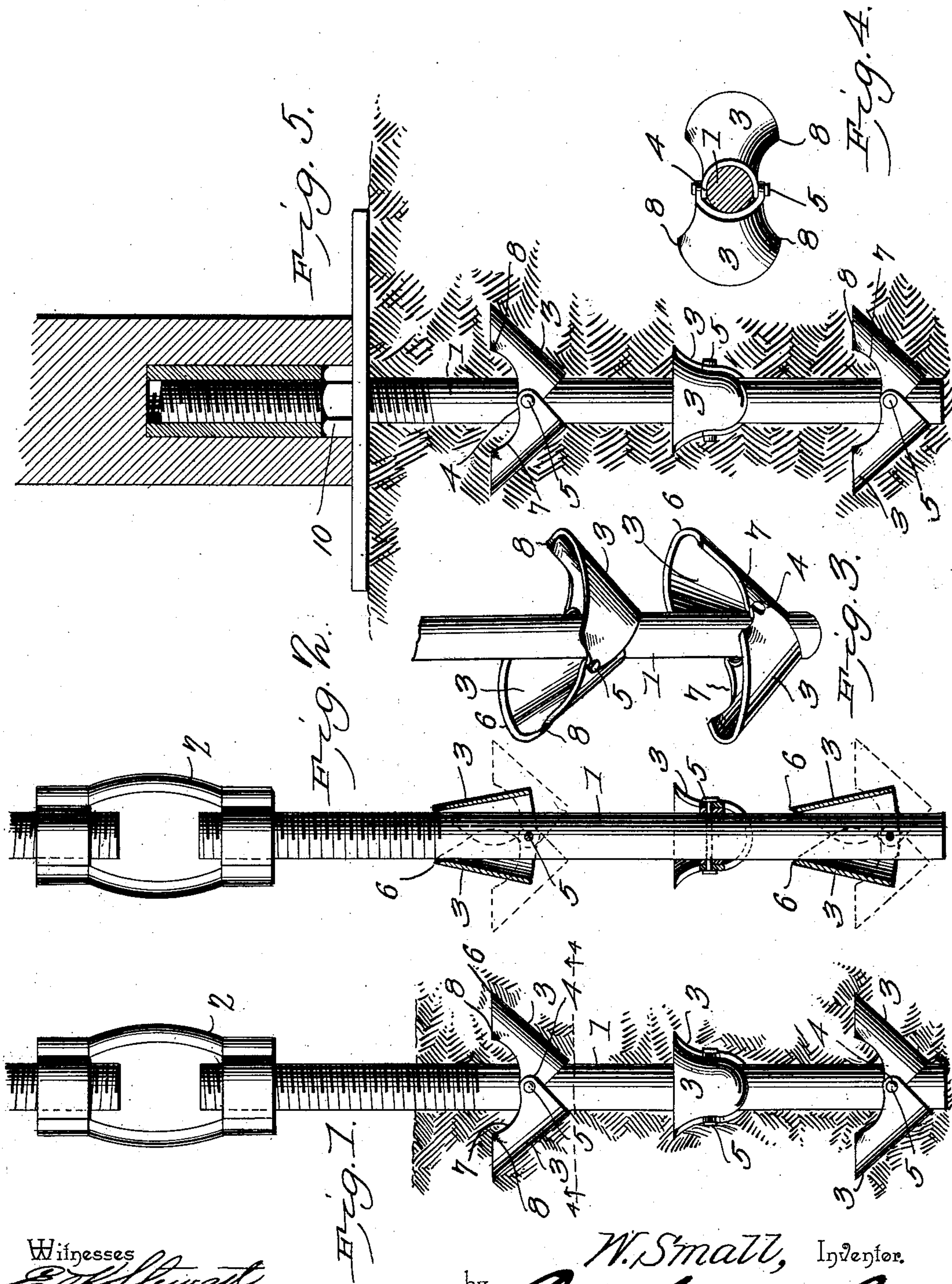
No. 744,421.

PATENTED NOV. 17, 1903.

W. SMALL.
ANCHOR POST.

APPLICATION FILED APR. 24, 1903.

NO. MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

WILY SMALL, OF DALLAS, TEXAS, ASSIGNOR OF ONE-HALF TO JOHN W. BROCK, OF GRAPEVINE, TEXAS.

ANCHOR-POST.

SPECIFICATION forming part of Letters Patent No. 744,421, dated November 17, 1903.

Application filed April 24, 1903. Serial No. 154,171. (No model.)

To all whom it may concern:

Be it known that I, WILY SMALL, a citizen of the United States, residing at Dallas, in the county of Dallas and State of Texas, have invented a new and useful Anchor-Post, of which the following is a specification.

This invention relates to certain improvements in anchoring devices especially designed for anchoring buildings, posts, telegraph-poles, and similar structures, and has for its object to provide a simple, inexpensive, and efficient device of this character capable of being easily and expeditiously embedded in the ground or other material and effectively resisting any lateral or longitudinal strain on the guy-rod.

A further object of the invention is to provide an anchoring device provided with a series of scoop-shaped expansible anchoring-cups arranged at an angle to each other and pivoted to a central supporting-rod, said anchoring-cups being capable of lateral expansion and contraction, so that when the anchor is planted in the ground and an upward longitudinal strain exerted on the guy-rod or post said cups will expand outwardly, the points thereof embedding themselves in the earth, rendering it impossible to withdraw the anchor.

A still further object is to form the anchoring-cups of such a shape as to retain the earth or other material therein when expanded, preventing said cups from being accidentally contracted and the anchor withdrawn, the relative disposition of the several parts being such that the greater the longitudinal strain exerted on the guy-rod or post the firmer said anchoring-cups will be embedded in the earth.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportions, and minor articles of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

In the accompanying drawings, Figure 1 is a side elevation of my improved anchoring

device. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a detail perspective view of a portion of the post and anchoring-cups. Fig. 4 is a transverse sectional view on the line 4 4 of Fig. 1, and Fig. 5 is a side elevation of a modified form of the invention.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a post or similar structure to be embedded in the ground, this in the present instance taking the form of a rod or bar, formed of metal or other suitable material, the upper end of which is threaded to receive a nut or turnbuckle 2. Secured to the rod or bar are a number of scoop-shaped cups 3, provided with outwardly-extending perforated ears or lugs 4, and these cups are arranged in pairs, each pair being at right angles to the other and pivotally connected to the rod by means of bolts or pins 5, which pass through the perforated overlapping ears of said cups and through openings in the rod, being riveted or otherwise secured thereto. The cups 3 are provided with cutting edges 6 and cut-away portions 7, defining laterally-extending points or spurs 8, which embed themselves in the earth when the anchor is planted and prevent the withdrawal of the same. The cups being arranged in pairs and pivoted to each other and to the central supporting-post permit said cups to expand and contract freely, the cups contracting on being introduced in the ground and expanding therein when pressure is applied to the guy-rod.

In applying the anchor a hole is dug equal to or slightly wider than the diameter of the contracted cups and the supporting-rod introduced therein, the sides of the cups coming in contact with the side walls of the hole contracting said cups and permitting the anchor to be easily inserted in the opening. The anchor may now be firmly embedded in the ground by turning the nut or turnbuckle, the longitudinal strain on the rod causing the pivoted cups to expand and embed themselves in the earth.

In Fig. 5 is illustrated the application of

the invention to a fence-post or the like, wherein the top of the rod passes through an opening in a base-plate 9, resting on the surface of the ground, so that by turning the
 5 nut 10 the anchoring-cups will be expanded and at the same time the plate clamped firmly to the ground.

From the foregoing description it will be seen that I have provided an extremely simple, inexpensive, and efficient anchoring device capable of effectively retaining the end of a guy-rod or other brace firmly embedded in the ground, the cups being arranged in
 10 pairs at right angles to each other and in such a manner that the greater the longitudinal strain exerted on the guy-rod the more firmly the pivoted cups will embed themselves in the ground, thereby rendering it impossible to withdraw the same.

It will be noticed that the bottom edge of the cups when said cups are expanded to their full extent abut the central supporting-rod, forming a brace, the cups filling with earth or other material when expanded, preventing the accidental closing of the same.
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Having thus described the invention, what I claim, and desire to secure by Letters Patent, is—

1. An anchoring device comprising a supporting-rod, and a series of expansible earth-receiving cups arranged in pairs and pivoted thereto.
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2. An anchoring device comprising a supporting-rod, and a series of expansible earth-receiving cups arranged in pairs and at right angles to each other and pivoted to said rod.
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3. The combination with an anchor-rod, of a plurality of pairs of expansible earth-receiving cup members pivoted to said rod, the

pivot-pins of different pairs crossing the axial line of the rod in different planes. 40

4. An anchoring device comprising a supporting-rod, a series of expansible anchoring-cups arranged in pairs, the cups of each pair being pivoted to each other and to the supporting-rod. 45

5. An anchoring device comprising a supporting-rod, a series of expansible anchoring-cups provided with cutting edges and laterally-extending spurs arranged in pairs and pivoted to the supporting-rod. 50

6. An anchoring device comprising a supporting-rod, a series of expansible anchoring-cups provided with cutting edges and laterally-extending spurs, said cups being arranged in pairs and at right angles to each other and pivoted to the supporting-rod. 55

7. An anchoring device comprising a supporting-rod, openings in the rod, a series of scoop-shaped expansible anchoring-cups, outwardly-extending perforated ears on the cups and pins passing through the perforations in the ears and adapted to enter the openings in the rod. 60

8. An anchoring device comprising a supporting-rod, openings in the rod, expansible anchoring-cups provided with outwardly-extending perforated ears and laterally-projecting spurs pivoted to the post, and pins passing through the perforations in the ears and adapted to enter the openings in the post. 65 70

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILY SMALL.

Witnesses:

F. J. BELL,

A. G. SCHULER.