G. E. PETERSON.

ANCHOR.

APPLICATION FILED JAN. 22, 1914. RENEWED JULY 30, 1917.

1,239,820. Patented Sept. 11, 1917.

Fig. 1.

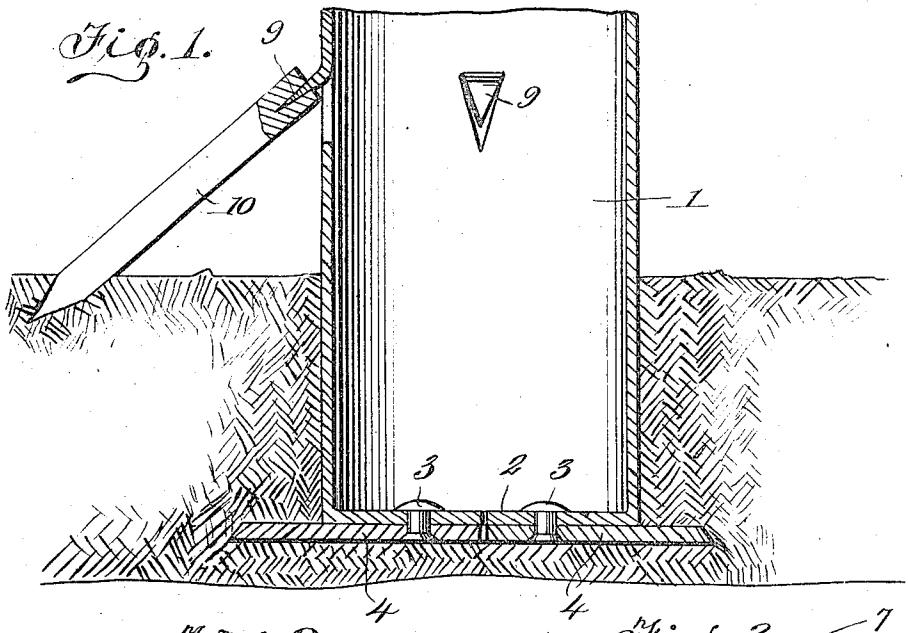


Fig. 2.

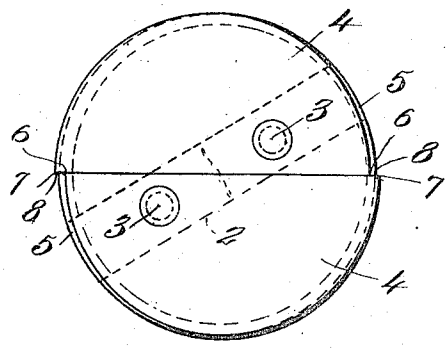


Fig. 3.

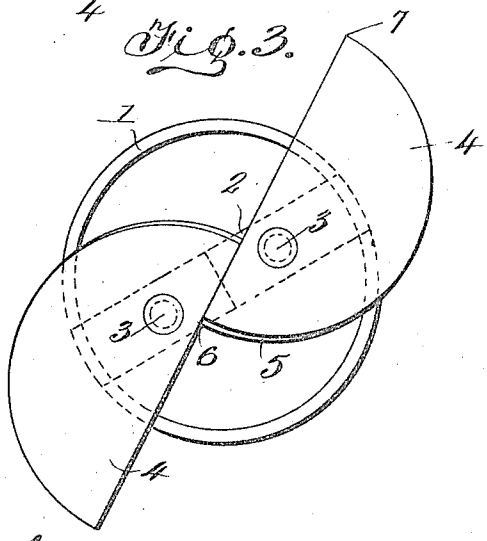
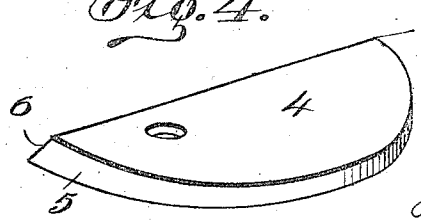


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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To all whom it may concern:

Be it known that I, GILBERT E. PETERSON, citizen of the United States, residing at Clinton, in the county of Big Stone and State of Minnesota, have invented certain new and useful Improvements in Anchors, of which the following is a specification.

This invention relates to an improved anchor device, and it has for its object to provide compact and simple means whereby posts, poles or the like may be removably yet rigidly anchored in the ground.

The invention further aims to provide an anchor device of the character described wherein the number of elements employed in effecting anchorage are reduced to the minimum, this being made possible by the novel and peculiar construction of the anchor plates, the curved edges of which are so beveled as to form a cutting edge and also a shoulder or abutment whereby the said plates may be made to bite into the soil and effect anchorage during circumferential movement of the post support to which the said plates are pivoted.

A still further object of the invention resides in the provision of means integral with the post support whereby one or more brace rods or posts may be removably yet firmly secured thereto.

The above and additional objects are accomplished by such means as are illustrated in their preferred embodiment in the accompanying drawings, described in the following specification and then more particularly pointed out in the claim which is appended hereto and forms a part of this application.

In describing my invention in detail reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a longitudinal sectional view of an anchor device constructed in accordance with the present invention;

Fig. 2 is a bottom plan view of the device before anchorage in the ground;

Fig. 3 is a similar view after anchorage; and

Fig. 4 is a detail perspective view of one of the anchor plates.

Before proceeding with the description of the drawings, I desire to call particular attention to the fact that while I have evolved my invention with reference to its application in connection with fence posts, the same may be readily utilized or employed as an anchoring device for telegraph poles, posts, staves, and various other forms of uprights or standards.

In the form shown, the device is exhibited and used on a tubular metal post or upright 1, the lower extremity of which is provided with an integrally formed plate support member 2, the said member comprising a pair of independent sections, one section being integral with and extending inwardly from diametrically opposite points at the base of the tubular post 1.

Pivoted as at 3 to each section of the plate support 2 is a substantially semi-circular anchor plate 4, the curved edge of which is beveled as at 5 to provide a cutting edge, gradually increasing its bluntness from a point 6 at one side of the plate to a point 7 at a diametrically opposite point, this construction providing, when the said two plates are positioned as illustrated in Fig. 2 of the drawings, a shoulder or abutment 8 for engagement with the ground or soil.

The said plates 4 are horizontally-flat and fold with the exception of the shoulder 8, entirely within the circumference of the post, so that when thus folded they will offer no resistance to vertical movement of the post. In setting the post, a post auger may be used to make a hole into which the post may be tightly driven, and it is important that the anchor plate be folded within the circumference of the post. The curved edges of the plate being beveled to form cutting edges, it is apparent that by circumferential movement of the post 1, the shoulders 8 of the anchor plates will abut or engage the soil so that the plates will cut their way thereinto when unfolded.

By pivoting the plate members 4 with such respect to the longitudinal axis of the post 1 as illustrated in Figs. 2 and 3, it is apparent that the straight edges of the said plates will at all times engage, the one plate serving as a guide means for the other, thereby causing the said plates, during an unfolding thereof, to extend in opposite directions beyond the circumference of the bore or post hole within which the post 1 is fitted.

Pointed tongues 9 are struck-out from the post 1, the said tongues forming a retaining element for the upper end of a brace rod or post 10, the opposite end of which is em-

bedded in the ground to thereby relieve the said post 1 of unusual lateral strain.

From the above, taken in connection with the accompanying drawings it is apparent that to anchor the post within the ground, it is only necessary to impart to the post a half turn, which circumferential movement will cause the anchor plates to extend oppositely into the soil beyond the circumference of the post, the said shoulder 8 and the beveled edges 5 facilitating such unfolding movement of the plates. To withdraw the post, it is only necessary that the same be turned in the opposite direction to that formerly used, thereby causing the semicircular plates to be drawn together and returned to the position indicated in Fig. 2, in which position the said plates are almost entirely within the circumference of the post, thus permitting the latter to be vertically withdrawn from the hole.

In reduction to practice, I have found that the form of my invention, illustrated in the drawings and referred to in the above description, as the preferred embodiment, is the most efficient and practical; yet realizing that the conditions concurrent with the adoption of my device will necessarily vary, I desire to emphasize the fact that various minor changes in details of construction, proportion and arrangement of parts may be resorted to, when required, without sacrificing any of the advantages of my invention, as defined in the appended claim.

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

A fence post comprising a body portion, and semicircular anchoring plates pivotally connected with the lower end of said body portion, each having its arcuate edge beveled at one extremity upon the lower face to cause the unbeveled extremity of each plate to provide an abutment shoulder extending outwardly beyond the lower face of the adjoining extremity of the second plate when the plates are in a retracted position.

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

GILBERT E. PETERSON.

Witnesses:
R. F. Ross,
W. L. Ross.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."