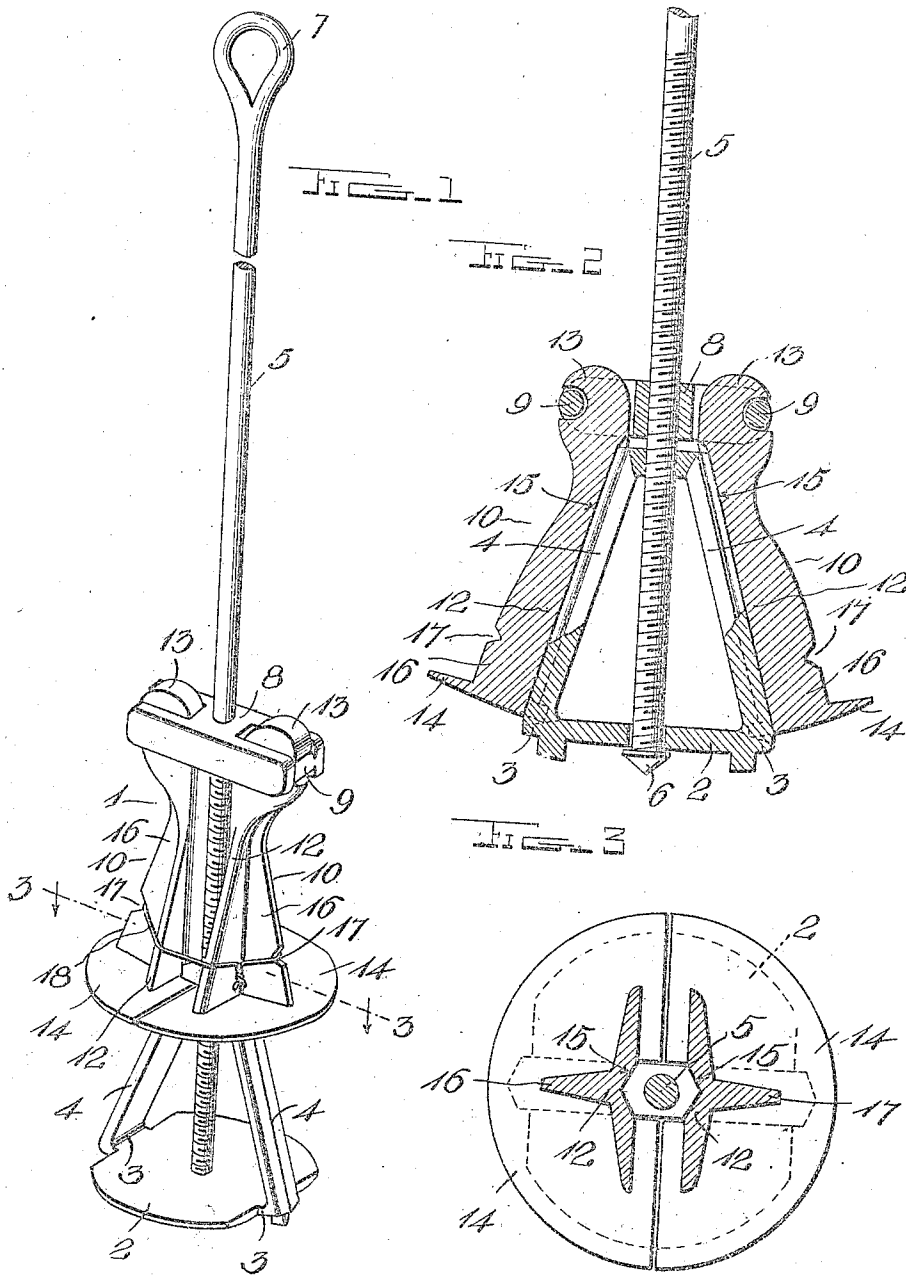


948,532.

C. I. STOCKING.
POST BRACE ANCHOR.
APPLICATION FILED JAN. 27, 1909.

Patented Feb. 8, 1910.



Witnesses
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UNITED STATES PATENT OFFICE.

CLARK I. STOCKING, OF HIAWATHA, KANSAS.

POST-BRACE ANCHOR.

948,532.

Specification of Letters Patent.

Patented Feb. 8, 1910.

Application filed January 27, 1909. Serial No. 474,457.

To all whom it may concern:

Be it known that I, CLARK I. STOCKING, a citizen of the United States, residing at Hiawatha, in the county of Brown and State of Kansas, have invented certain new and useful Improvements in Post-Brace Anchors; and I do 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.

This invention relates to improvements in post brace anchors.

The object of the invention is to provide a device of this character which may be readily engaged with the ground and operated to securely fasten itself in the earth thereby rigidly anchoring the post brace.

A further object is to provide a post brace anchor having improved construction of parts and means whereby they may be readily assembled for use.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a perspective view of the device with the parts in inoperative position; Fig. 2 is a vertical sectional view with the parts expanded in position for use; Fig. 3 is a horizontal sectional view on the line 3—3 of Fig. 1.

Referring more particularly to the drawings, 1 denotes the anchor which consists of an expanding frame having a substantially circular base, 2. The sides of the base are cut away to provide diametrically opposite lugs, 3, from which project upward, inwardly diverging arms, 4, which are connected together at their upper ends and in said upper ends is formed a vertically disposed passage which alines with a similar passage in the center of the base plate. The arms, 4, have angular, outer sides for a purpose hereinafter described and on the bottom of the base, 2, are formed V-shaped holding lugs which are adapted to engage the earth when the expander is in operative position, to prevent the same from turning.

Loosely engaged with the apertures in the outer ends of the arms, 4, and in the base, 2, is an operating rod, 5, the inner end of which is provided with a head, 6, which engages the lower side of the base, 2, and holds the ex-

pander in position. On the outer end of the rod is preferably formed an eye, 7. On the rod, 5, is a cross head, 8, said cross head having a threaded engagement with the threaded lower portion of the rod, whereby when the rod is revolved, said threaded lower end will be screwed through the cross head. In the opposite ends of the head are formed bearing apertures in the outer portions of which are formed cylindrical bearings, 9.

Operatively engaged with the head, 8, are anchoring wings, 10, each of which consists of arms, 12, having on their upper ends hooks, 13, which are adapted to be engaged with the bearing apertures and bearings, 9, in the opposite ends of the cross head, 8. On the lower ends of the arms 12 are formed laterally projecting segmental anchoring blades 14, which are adapted to be forced into the earth in the manner hereinafter described. In the inner side of the arms, 12, and inner edges of the blades, 14, are formed V-shaped grooves, 15, which are adapted to be engaged by the triangular outer sides of the expanding frame, whereby when the said expander is drawn upwardly by the operation of the rod, 5 in the threaded aperture of the cross head the lower portion of said arms and blades will be expanded. On the outer sides of the arms, 12, are formed bracing webs, 16, in which adjacent to the blades, 14, are formed notches, 17, which when the anchoring arms are in a retracted or inoperative position, are adapted to receive a light wire, 18, which is passed around the arms, thereby holding the same in position. When the expander is drawn upwardly between the arms and anchoring blades, the wire, 18, will be broken thus permitting said arms and blades to be expanded. When the arms and blades are in a retracted position, the inner edges of the blades 14 are brought together or into close relation and when the anchoring arms and blades are in an expanded position the base 6 of the expander will partly fill the space between the expanded blades.

In the operation of the device a hole is first drilled in the ground after which the anchor with its parts in a retracted or inoperative position is inserted into the drilled hole after which the operating rod is revolved in the proper direction to draw the inner end of the same together with the expander up between the anchoring arms and blades, thereby forcing the same laterally into the earth, forming the sides of the bore.

When the anchoring blades have been thus expanded, the anchor will be securely held in the earth.

It will be noted that by providing the cross head, 8, with a threaded aperture to receive the operating rod that the necessity of providing operating nuts or other devices is entirely obviated.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the invention as defined in the appended claim.

What I claim, and desire to secure by Letters-Patent is:

In a post brace anchor, an expander comprising a wedge-shaped frame having a substantially circular base, an operating rod

having a swivel engagement with said expander, a cross head having a screw-threaded engagement with said rod, bearings formed on the outer ends of said cross head, anchoring wings having a detachable and pivotal engagement with the bearings in the opposite ends of said cross head, said wings comprising arms having on their lower ends radially projecting segmental blades, said blades and arms having notched inner edges adapted to be engaged with the outer sides of the expander and means to hold said wings in an inoperative position, said means being adapted to be broken by the expansion of the wings.

In testimony whereof I have hereunto set my hand in presence of the subscribing witnesses.

CLARK I. STOCKING.

Witnesses:

F. M. PEARL,
ETHEL FRAZEY,
H. C. TAKER.