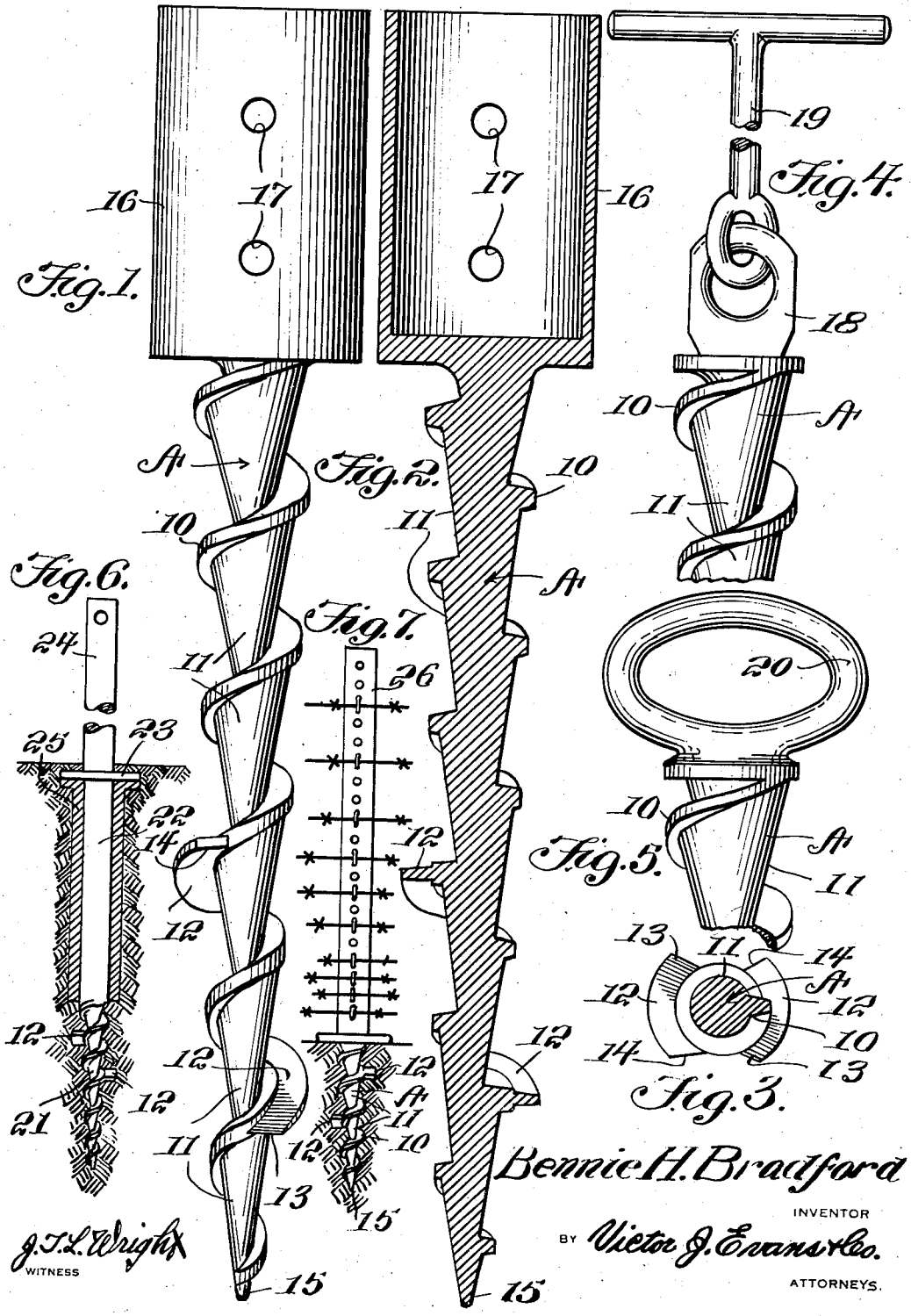
June 15, 1937. B. H. BRADFORD 2,084,239

STAKE

Filed April 3, 1936



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WITNESS

Patented June 15, 1937 2,084,239

UNITED STATES PATENT OFFICE

2,084,239

STAKE

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Application April 3, 1936, Serial No. 72,604

1 Claim. (Cl. 189—30)

The invention relates to a ground anchoring device and more especially to stakes.

The primary object of the invention is the provision of a stake of this character, wherein the ground engaging end portion thereof is formed with a spiral and between the convolutions of such spiral the said end portion is composed of a plurality of conical formations, the upper end of each of such formations being greater in diameter than the lower end of the next higher formation while the spiral thread is provided at opposite sides with wings, these being sharp or narrow at their lower edges and gradually increase in thickness in the direction of their upper edges and the upper edges of which are narrower than the spiral thread so that a firm and positive anchorage can be had in the ground for supports such as posts, eyes for tie wires, cables or the like and fixation of the stake is assured with dispatch and ease as well as being readily removable when the occasion requires.

Another object of the invention is the provision of a stake of this character, wherein the construction thereof is novel in form and will assure secure and firm fixation in a foundation, such stake being readily anchored and removed at will.

A further object of the invention is the provision of a stake of this character, which is of the winged auger type and is simple in construction, thoroughly reliable and effective in its operation, strong, durable, and inexpensive to manufacture and install.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawing, which discloses the preferred embodiment of the invention and pointed out in the claim hereunto appended.

In the accompanying drawing:

Figure 1 is a side elevation of a stake constructed in accordance with the invention.

Figure 2 is a vertical sectional view thereof.

Figure 3 is a horizontal sectional view through the stake.

Figure 4 is a fragmentary side elevation of a slight modification.

Figure 5 is a fragmentary side elevation of a further modification.

Figure 6 is a fragmentary vertical sectional view through a foundation showing a further modified form of stake anchored therein.

Figure 7 is a view similar to Figure 6 showing a still further modification.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing in detail, particularly Figures 1 and 2, the stake comprises a body A which has formed exteriorly thereon a spiral thread 10 while the portions of the said body A between the thread are of conical formation as at 11, the upper end of each of such formations being greater in diameter than the lower end of the next higher formation.

The spiral thread is provided at opposite sides of the body A with wings 12 which have sharp or narrow lower edges 13 and gradually increase in thickness in the direction of the upper edges 14 and each upper edge of which is narrower than the spiral thread 10. The formations with the threads 10 about the body A effect a tapered characteristic to the said body with a pointed tip 15 at one end while at the other end is a cup shaped head 16 for the socketing therein of a post or other support which is riveted or otherwise secured in place, the holes 17 being provided for this purpose.

In Figure 4 of the drawing there is shown a slight modification wherein the head 18 constitutes an eye and linked with this eye 18 is a turning key 19 which enables the screwing of the stake into a foundation and also such key may be utilized as a terminal fastener for a tie brace or other wire or cable.

In Figure 5 of the drawing there is shown another modification of the invention wherein a loop 20 is provided at the head end of the stake so that ropes, wire or cables may be fastened thereto when the stake is anchored in a foundation.

In Figure 6 of the drawing there is shown a still further modification wherein the stake above the spiral thread end portion 21 is in the form of a stem 22 having a shoulder 23 from which rises a post or other support 24. The stake is anchored in the ground or foundation through the instrumentality of a cement casement 25 which is poured into a bore or opening as created by the stake in the anchoring thereof.

In Figure 7 of the drawing there is shown a still further modification wherein the stake is in the form of a wire fence post 26.

From the foregoing it should be seen that the spiral thread on the stake will permit the screwing thereof into a foundation or ground and a firm and secure anchorage will be had while such stake can be readily removed from the foundation or ground as the occasion may require.

What is claimed is:

A stake of the kind described, comprising a body of rounded formation and tapering in one direction, a spiral thread exteriorly of said body, inverted conical formations between the spirals of said thread, the upper end of each of such formations being greater in diameter than the lower end, the thread following and being located at the greater diameters of said formations, a pointed tip formed at the smaller end of said body and extended beyond the terminal of the thread next to said tip and a short spiral built on and protruding from the thread at a point close to the tip to provide a wing gradually thickened from the lowermost point to the highest point thereof, and a beveled sharp edge provided at the lowermost end of said wing, the wing being graduated from the lowermost to the uppermost extremities of the same.

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