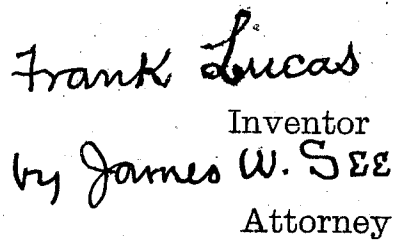
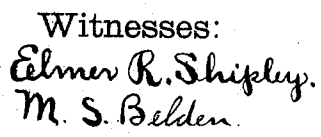


APPLICATION FILED MAY 27, 1908.

Patented May 25, 1909.



UNITED STATES PATENT OFFICE.

FRANK LUCAS, OF SIDNEY, OHIO, ASSIGNOR TO GEORGE H. HYLAND, OF HAMILTON, OHIO.

LAND-ANCHOR.

No. 923,056.

Specification of Letters Patent.

Patented May 25, 1909.

Application filed May 27, 1908. Serial No. 435,248.

To all whom it may concern:

Be it known that I, FRANK LUCAS, a citizen of the United States, residing at Sidney, Shelby county, Ohio, have invented certain new and useful Improvements in Land-Anchors, of which the following is a specification.

The present invention, relating to an improved land anchor of the Stomabugh type, (see United States Patent No. 501,811) designed for anchoring guy wires and the like, will be readily understood from the following description taken in connection with the accompanying drawing in which:—

Figure 1 is a side elevation of my improved anchor: Fig. 2 is a similar view of the anchor, in connection with the tube wrench employed in sinking the anchor, the tube wrench appearing in vertical section: and Fig. 3 a perspective view, part vertical longitudinal section, of the upper portion of the anchor and tube wrench.

In the drawing:—1, indicates the anchor proper, being a helix adapted to be screwed into the ground: 2, the rectangular upper hub thereof adapted to receive a wrench: 3, the anchor rod, having its lower end secured in the anchor: 4, an eye fixedly secured to the upper end of the anchor rod and adapted to receive the wire or other connection with which the anchor is to cooperate: 5, the base portion of the eye: 6, the wrench tube, being a tube rectangular in cross-section and having an interior dimension adapting it to freely pass over the base 5 of the eye and to properly fit the upper hub 2 of the anchor, and having a link less in extent than the distance between the upper end of the hub 2 and the under surface of the base 5 of the eye: 7, a sleeve adapted for vertical sliding motion on the upper end of the wrench tube: 8, a detent, illustrated as a set screw, for securing the sleeve in position of vertical adjustment upon the wrench tube: 9, the opening in the upper end of the sleeve adapted, when properly adjusted angularly, to pass over the base of the eye: 10, a pin and slot arrangement, of an obvious character, connecting the wrench tube and the sleeve and permitting the sleeve to have a limited degree of sliding motion on the wrench tube: 11, the wrench handle, being a cross bar adapted to take selective positions along the length of the wrench tube: and 12, a set screw extending through one arm of the wrench handle and adapted to impinge against the wrench

tube and hold the handle in selected position on the wrench tube.

The eye 4 is permanently secured, as by riveting, to the upper end of the anchor rod and it is so set, angularly, that the rectangle of its base 5 is angular with reference to the rectangle of the hub 2 of the anchor, or, the two rectangles instead of being so set as to register with each other, one is substantially an eighth of a turn in advance of the other.

When the anchor is to be sunk in the ground, the handle is first to be applied and secured to the tube; the sleeve is to be adjusted to downward position; the tube is then to be slipped over the eye until the upper end of the sleeve is below the base of the eye, the tube is then to be given a partial turn so that its lower end may go down over the hub 2 on the anchor; the sleeve is then to be adjusted to upward position with its upper end engaging under the corners of the base of the eye, or to a position so close up to the base of the eye as to prevent the tube accidentally lifting off of the hub 2 of the anchor; the anchor is then to be screwed into the ground the desired distance; after which the sleeve is to be loosened and lowered and lifted from the hub 2 and then turned properly and withdrawn over the eye.

I claim:—

1. A land anchor comprising, a helical anchor proper provided with a rectangular upper hub, an anchor rod fixedly secured therein, an eye fixedly secured to the upper end of the anchor rod and having side projections at its base, said side projections and the corners of the hub being arranged in angular relationship with each other, combined substantially as set forth, whereby a wrench-tube rectangular in cross-section may be passed down over the eye and rod and then partially turned to engage said rectangular hub and come under said projections.

2. A land anchor comprising, a helical anchor proper provided with a rectangular upper hub, an anchor rod fixedly secured therein, an eye fixedly secured to the upper end of the anchor rod and having side projections at its base arranged angularly with reference to the corners of said hub, a wrench-tube rectangular in cross-section and adapted to fit said hub and having a length less than the distance between the hub and the base of the eye, a wrench handle attached to said tube, and a retaining device mounted upon the upper end of the tube and adapted for adjust-

ment into position to engage under the base of the eye when the lower end of the tube is in engagement with said hub, combined substantially as set forth, whereby the tube may
5 be passed down over the eye and rod and engage with said rectangular hub and be held against lifting therefrom by said side projections of the eye.

10 3. A land anchor comprising, a helical anchor proper provided with a rectangular upper hub, an anchor rod fixedly secured therein, an eye fixedly secured to the upper end of the anchor rod and having side projections at its base arranged angularly with reference to
15 the corners of said hub, a wrench tube rectangular in cross-section and adapted to pass over said eye and fit said hub and having a

length less than the distance between the hub and the base of the eye, a wrench handle attached to the tube, a sleeve slidable on the
20 upper end of the wrench tube and having an upper opening adapted to pass the base of the eye in one condition of angular adjustment and to catch under the base of the eye
25 when in the angular position corresponding with the engagement of the tube with said hub, and means for securing said sleeve in position of vertical adjustment on the tube, combined substantially as set forth.

FRANK LUCAS.

Witnesses:

D. F. MILLS,
JAS. L. VAN RIPER.