May 9, 1933. A. A. HOLLOS 1,907,811

ANCHOR POST

Filed July 1, 1931

Fig. 1

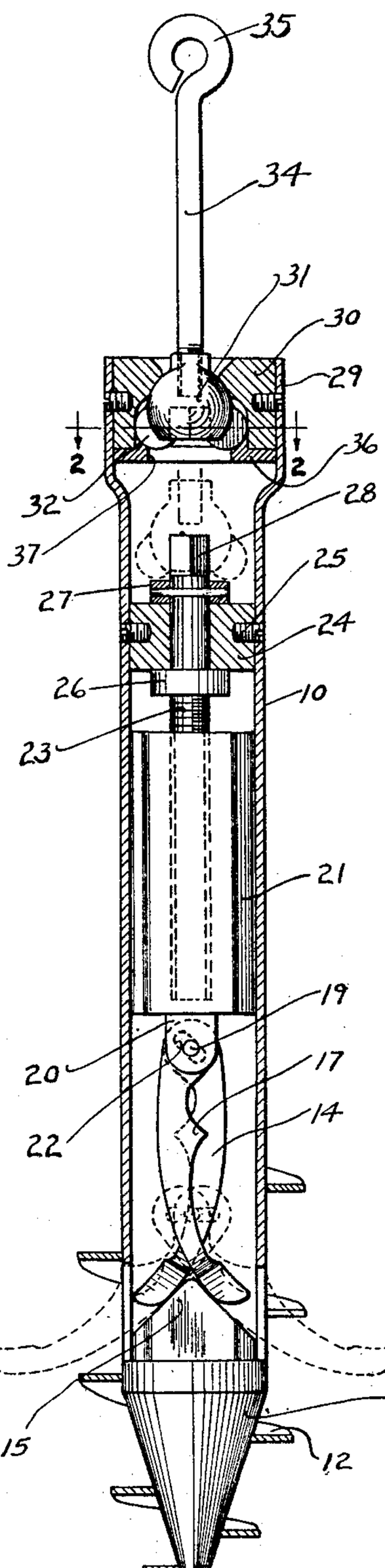


Fig. 2

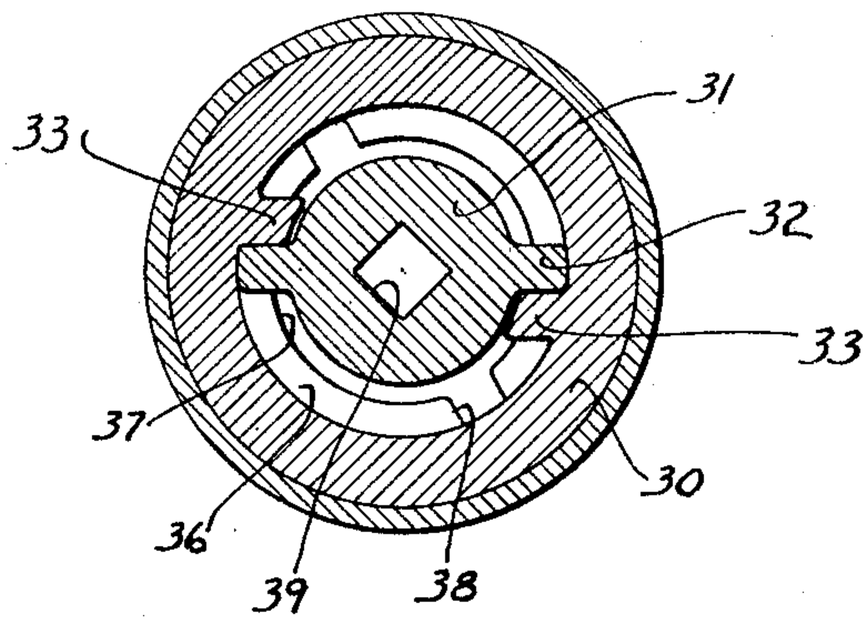


Fig. 3

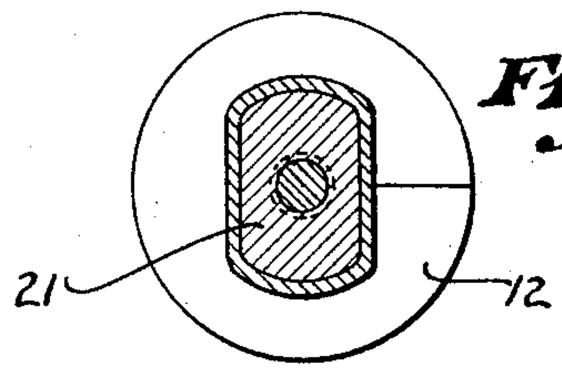


Fig. 4

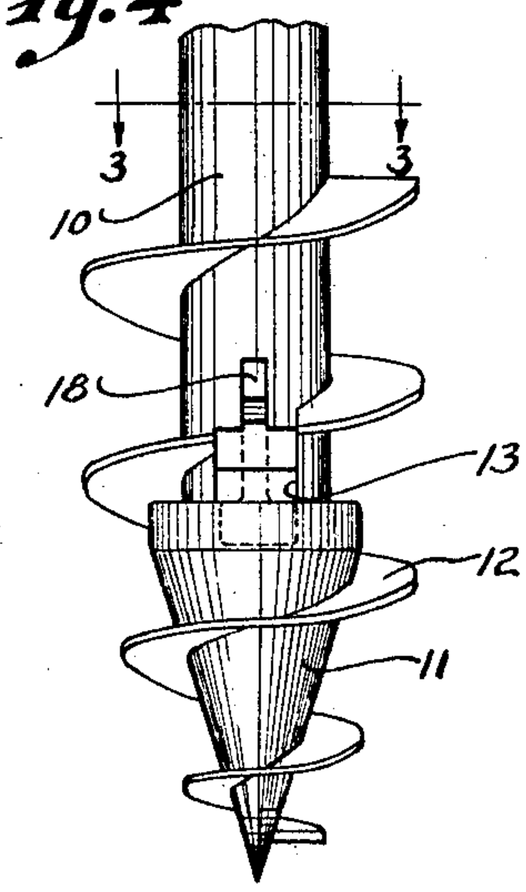
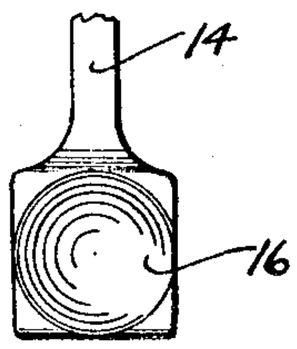


Fig. 5



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UNITED STATES PATENT OFFICE

AUGUST A. HOLLOS, OF TOLEDO, OHIO

ANCHOR POST

Application filed July 1, 1931. Serial No. 548,067.

This invention relates to an anchor post, which is adapted to be forced into the ground, and to which a cable may be secured, and an object is to produce a new and improved anchor post having the novel features of construction, arrangement and operation hereinafter described.

An embodiment of the invention is shown by way of illustration in the accompanying drawing, in which:

Fig. 1 is a longitudinal sectional elevation of the anchor post;

Fig. 2 is an enlarged transverse sectional elevation on the line 2—2 of Fig. 1;

Fig. 3 is a transverse sectional view on the line 3—3 of Fig. 4;

Fig. 4 is an elevation of the lower end portion of the post; and

Fig. 5 is a top plan view of the scoop shaped outer end of the blade members.

The illustrated embodiment of the invention comprises an anchor post having an elongate metallic barrel 10, having a lower pointed end portion 11 suitably secured in place. On the outside of the pointed end 11, and extending part way up the barrel 10 is a helical blade 12 to enable the post to be screwed into the ground.

Formed in the lower end of the barrel 10 adjacent the pointed end 11 is a pair of substantially T-shaped openings 13 through which may project a pair of blade members 14. The lower ends of the blade members 14 are engageable with a cam member 15 formed on the pointed end. The cam member 15 has oppositely inclined cam surfaces to cam or force the blade members 14 outwardly through the openings 13 when movement in one direction is imparted thereto.

Each blade member 14 is provided with a scoop or spade-shaped outer end 16. Formed in the inner end of each of the arms 14 is an outwardly extending pointed projection 17, which is adapted to be disposed in an extension slot 18 leading from each of the openings 13. When the blade members are disposed in the extension slots 18 in their extreme limit of movement outwardly of the barrel, they are held securely in place. It will be noted that the blade members 14 cross each other, and the inner ends of the blade members are pivoted on a pin 19 secured to lugs 20 depending from a block 21. The inner end of each arm 14 is formed with a diagonal slot 22, the arrangement being such that when the block 21 is moved downwardly the pin 19 engaging in the elongate diagonal slots 22, the blade members are fully forced outwardly through the openings 13, and in their final position rest in the extension slots 18.

As shown in Fig. 3, the intermediate portion of the barrel 10 is flattened on opposite sides, the block 21 conforming thereto in order to prevent rotative movements of the block 21 relative to the barrel but permitting longitudinal movements thereof. Extending into the block 21 and in screw threaded engagement therewith is a rod 23, which has bearing in a block 24 held in place by set screws 25. A collar 26 on the rod 23 engages one side of the block 24 and a collar 27 pinned to the rod 23 is disposed on the opposite side of the bearing block 24. Thus it will be seen that the rod 23 is free to turn, but longitudinal movements thereof with respect to the barrel 10 are prevented. The outer end of the rod 23 is squared, as indicated at 28, for the reception of an actuating tool.

It will be apparent that rotation of the rod 23 in one direction imparts outward movement to the block 21 for moving the blades 14 outwardly through their openings, and movement of the rod 23 in the opposite direction causes the block 21 to move upwardly, thereby drawing the blades 14 into the interior of the barrel 10.

The upper end of the barrel 10 is enlarged, as indicated at 29, and disposed therein is a ring 30, which is fixed against movement and is formed to receive a substantially spherical member 31 therein. Formed on the spherical member 31 is a pair of oppositely disposed wings 32, which are adapted to engage lugs 33 integral with the ring 30 and projecting inwardly therefrom. It will be apparent that rotative movement of the member 31 in one direction or another will move the wings 32 into engagement with lugs 33, and thereby impart rotative movements to the anchor post for screwing it into or out of the ground. A

rod 34 secured to the member 31 extends outside of the barrel, and is provided at its outer end with an eye 35 to receive a suitable tool, such as a bar, for turning the member 31 in one direction or the other.

Disposed directly beneath the ring 30 is a plate 36 provided with a central opening 37 of sufficient size to permit the spherical member 31 to pass therethrough, but smaller than the member 31 plus the wings 32. Also formed in the plate 36 are oppositely disposed slots 38, through which the wings 32 on the member 31 may pass when the member 31 is moved to such position that the wings are in register with the slots.

It will be apparent that by turning the member 31 to the proper position it may be moved longitudinally through the opening 37. A square socket 39 formed in the inner end of the member 31 is adapted to fit over the square end 28 of the rod 23. As shown by the dotted lines of Fig. 1, the member 31 may be moved into engagement with the outer end of the rod 23, and by imparting a turning force to the rod 34, the rod 23 may be moved in one direction or the other to advance or retract the blade members 14. It will thus be seen that the member 31 may be used either to screw or unscrew the post in the ground, and also to actuate the blade members 14. It will also be apparent that a cable may be attached to the eye 35 on the outer end of the rod 34.

The above described anchor post may be manufactured at a comparatively low cost owing to the relatively small number of parts and the convenience in the assembly. Due to the fact that a single member is provided for both forcing the barrel into the ground and actuating the blade element, no additional tools are required for operating.

It is to be understood that numerous changes in details of construction, arrangement and operation may be effected without departing from the spirit of the invention, especially as defined in the appended claims.

What I claim as new and desire to secure by Letters Patent is:

1. An anchor post comprising an elongate barrel having a pointed lower end, and opposed openings adjacent such end, blades adapted to be projected through said openings, a pivotal mounting for said blades reciprocable longitudinally in said barrel, a rod in screw threaded engagement with said mounting, means to hold said rod from longitudinal movements, a combined rod and barrel actuator for imparting turning movements to said barrel when in one position, and for imparting turning movements to said rod when in another position, and an extension for said actuator projecting outside the barrel and providing a cable-attaching means.

2. An anchor post comprising an elongate barrel having a pointed lower end and opposed openings adjacent thereto, blades adapted to be projected through said openings, a non-rotatable mounting for said blades reciprocable longitudinally in said barrel, a rod in screw threaded engagement with said mounting, means to hold said rod from longitudinal movements, a ring fixed to the upper end of said barrel having a pair of internal lugs, a member within said ring having wings engageable with said lugs for turning said barrel in one direction or the other, said member being engageable with the outer end of said rod for turning the same in one direction or the other, and means extending outside of the barrel for actuating said member.

3. An anchor post comprising an elongate barrel having a pair of oppositely disposed openings, blades projectable through said openings, means for actuating said blades including a rotatable rod, a combined rod and barrel actuator for selectively turning said barrel or said rod, and means extending outside of said barrel for actuating said last mentioned means.

4. An anchor post comprising an elongate barrel having a pair of opposed flattened sides and a pair of oppositely disposed openings adjacent the lower end thereof, blade members projectable through said openings, a mounting for said blade members reciprocable in said barrel, a rod in screw threaded engagement with said mounting, means to hold said rod against longitudinal movement, a member fixed to the outer end portion of said barrel having a cavity, an actuator disposed in said cavity having a pair of wings, lugs on the inside of said member engageable by said wings for imparting turning movements to said barrel, a plate disposed beneath said actuator and having an opening through which said actuator is adapted to pass, said actuator having a polygonal socket engageable with the outer end of said rod, thereby to impart rotative movements to said rod, and a rod extending outside of the barrel and fixed to said actuator.

In testimony whereof I have hereunto signed my name to this specification.

AUGUST A. HOLLOS.