

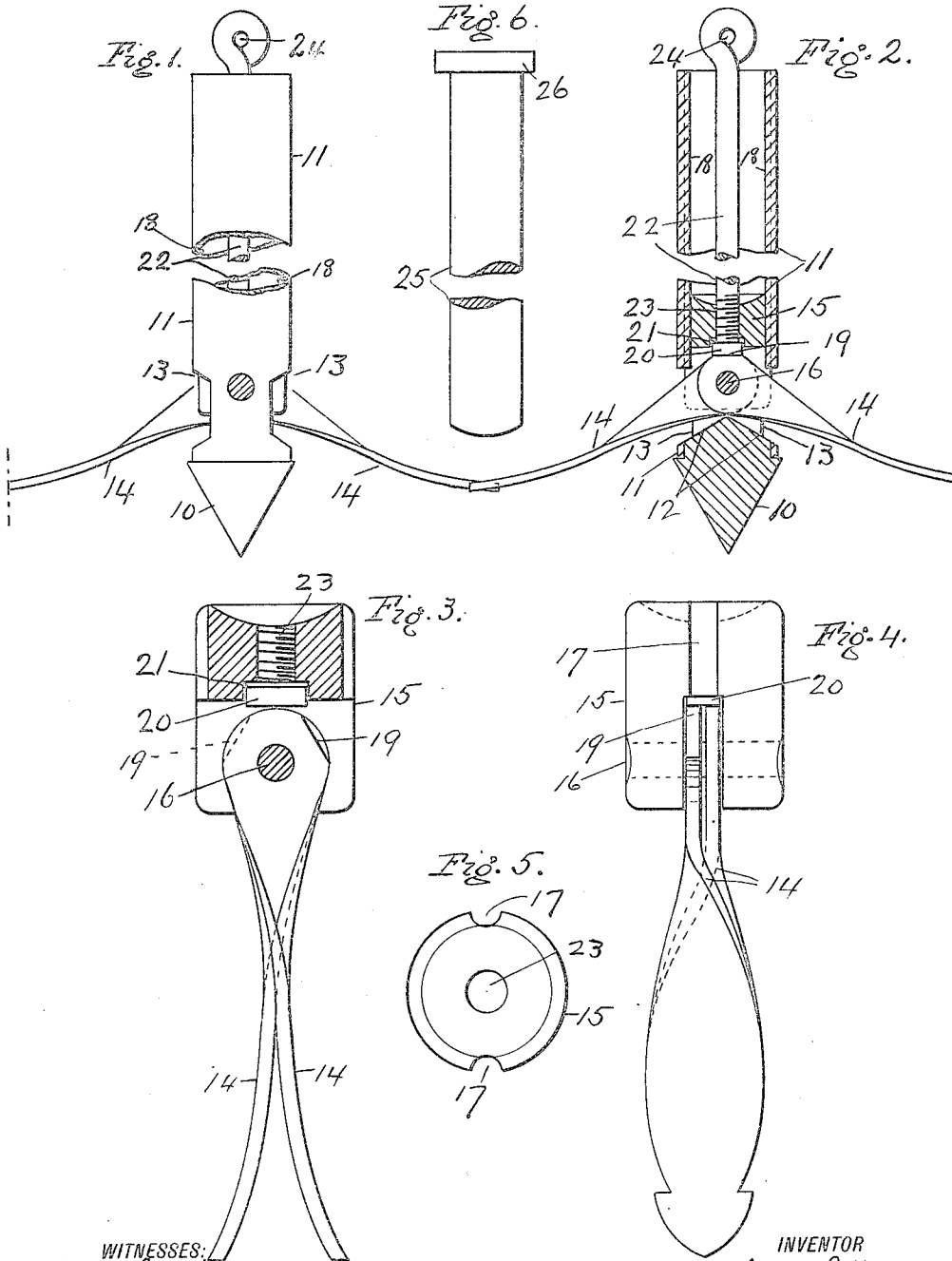
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POST.

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1,042,362.

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To all whom it may concern:

Be it known that I, MARSHALL P. MAXWELL, a citizen of the United States of America, and residing in the borough of Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Posts, of which the following is a specification.

My invention relates to posts and particularly to guy-posts the object of my invention being to provide an improved device of this character provided with extendible holding anchors, means for locking them in extended position after the insertion of the post and means for withdrawing the anchors when it is desired to remove the post.

In the accompanying drawing which shows an illustrative embodiment of my invention, Figure 1 is an elevation of my post with anchors extended and locked in position; Fig. 2 is a vertical section there-through; Figs. 3 and 4 are side elevations of the anchor block and parts at right angles to each other; Fig. 5 is a plan of the block; and Fig. 6 is an elevation of a driving anvil.

The post illustrated comprises a driving point 10, preferably solid, fitted in the lower end of the tubular body 11 of the post. The upper surface of the driving point is raised centrally to present downward guide inclines 12 which face openings 13 on the opposite sides of the post body and serve to spread and guide out therethrough the anchor arms 14. The lower edges of the inclines 12 should register with or lie slightly above the lower edge of the openings 13 so that as the arms 14 are spread through the openings 13, they may not catch upon the lower edge of the latter.

Slidably mounted within the post and carrying the anchor arms 14, I provide an anchor block 15. The lower face of this block is transversely slotted to receive the inner ends of the anchor arms 14 which are pivoted freely on the transverse pin 16. Vertical slots 17 on the opposite sides of this block engage inwardly projecting guide ribs 18 on the post and the anchor arms 14 are thus accurately positioned with reference to the apertures 13 through which they must pass.

To insure the greatest possible grip of the anchor arms upon the soil into which they are driven, I make their outer ends horizontal, while their inner pivoting ends are sub-

stantially vertical. This is readily accomplished by the use of heavy sheet metal therefor, which may be twisted to the desired shape. This shape has the further advantage of facilitating the entrance of the anchor arms into the soil, since the twisted surface tends to force to one side small rocks, etc., instead of merely driving dead against them as is the case with straight or merely curved anchor arms. After the arms have been extended to anchoring position, I provide means for locking them in this position. This is accomplished in the example illustrated, by flattening the edges of the arms at 19. A flat lock plate 20 lying in the recess 21 in the anchor block 15, is forced down upon these flat turned portions 19 of the arms by the rod 22 which is screwed down upon the lock plate through the threaded hole 23 in the upper portion of the block. Obviously any tendency of the arms to turn on the pivot 16 is now prevented by lock plate 20 which is held firmly against the flattened faces 19 of the arms, by the rod 22. Additional utility is imparted to the locking rod 22 by providing it with an eye 24 at its upper end by which a guy-rope may be readily secured thereto. The strain of the guy-rope is thus transmitted directly to the anchor. This rod has still further utility in case it is desired to remove the post, since upon partially unscrewing the same, its lower end is lifted out of engagement with the lock plate 20 so that the latter is now free to rise, the anchor arms 14 are therefore free to turn upon the pivot pin 16, and a sufficient pull upon the rod 22 lifts the anchor block 15 thus retracting the anchor arms 14, whereupon the post may be removed with relative ease.

It will of course be understood that the post is first driven into the ground without the anchor block. For this purpose a driving rod 25 with head 26 may be employed. The stem of the rod fits within the post while the head overlies the upper end thereof and protects it from injury by the driving implement. After the post has been inserted, the anchor block is dropped in and the driving rod again inserted, now bearing at its lower end against the anchor block. After the latter has been driven down, spreading the anchor arms and forcing them into the surrounding soil, the driving rod is again with-

drawn, and the locking guy-rod inserted and screwed down against the rock plate to hold the anchor arms in spread position. To facilitate the entry of the rod in the screw hole 23, the upper surface of the block may be dished as shown. To insure the spread of the anchor arms a sufficient distance to bring the flattened faces 19 into position beneath the lock plate 20, the length of the driving rod 24 may be determined with precision so that when the head 25 is flush with the top of the post, the arms have been brought to the proper position for locking.

Obviously the structure shown is but illustrative of my invention and may be variously modified while still accomplishing the same results.

I claim as my invention:—

1. In an anchor post, a slidable anchor block, anchor arms pivoted thereto, means for spreading said arms in anchoring position on the downward travel of said block, and means for locking said arms in spread position, said means comprising flattened surfaces on said arms lying in substantially the same plane when said arms are in anchoring position, and a locking member bearing against surfaces and serving to hold said arms against pivoting in said anchor block.

2. In an anchor post, a slidable anchor block, anchor arms pivoted thereto, means for spreading said arms into anchoring position on the downward travel of said block and means for locking said arms in spread position, said means comprising flattened surfaces lying in substantially the same plane when said arms are in anchoring position, a displaceable locking plate adapted to be pressed against said surfaces and a screw rod passing through the anchor block and bearing against said lock plate to press the same into locking engagement with said flat surfaces on said anchor arms, substantially as described.

3. In an anchor post, an anchor block, anchor arms pivoted thereto, a guy rod detachably engaging said block and means, in

connection therewith, for locking said anchor arms in an anchoring position.

4. In an anchor post, an anchor block, anchor arms pivoted thereto and adapted to be spread upon the downward drive of said block, in combination with a guy rod and means for engaging the same to said anchor block after the latter has been driven to anchoring position.

5. In an anchor post an internal slidable anchor block, anchor arms pivoted thereto and spread in anchoring position, in combination with a rod attachable to said block in anchored position and means in connection with said rod for locking said arms in spread position.

6. In an anchor post, an internal slidable anchor block, anchor arms pivoted thereto and spread in anchoring position, in combination with a rod attachable to said block in anchored position, and means in connection with said rod for locking said arms in spread position, together with an engaging connection between said block and rod operative in the unlocked position of said anchor arms whereby said rod may be employed to retract said anchor arms and thus facilitate the removal of the post.

7. In an anchor post, an internal slidable anchor block, anchor arms pivoted thereto and spread in anchoring position, a guy rod having a screw connection with said block, said guy rod when screwed fully home, serving to lock said anchor arms in spread position.

8. In an anchor post, an anchor block with longitudinal screw hole and a dished surface surrounding the same, anchor arms pivoted to said anchor block, and a guy rod with threaded end adapted to be screwed into said anchor block after the latter has been driven into anchoring position.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses.

MARSHALL P. MAXWELL.

Witnesses:

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