April 18, 1939. J. W. VANDERVEER 2,154,966

MARKER

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Fig. 2.

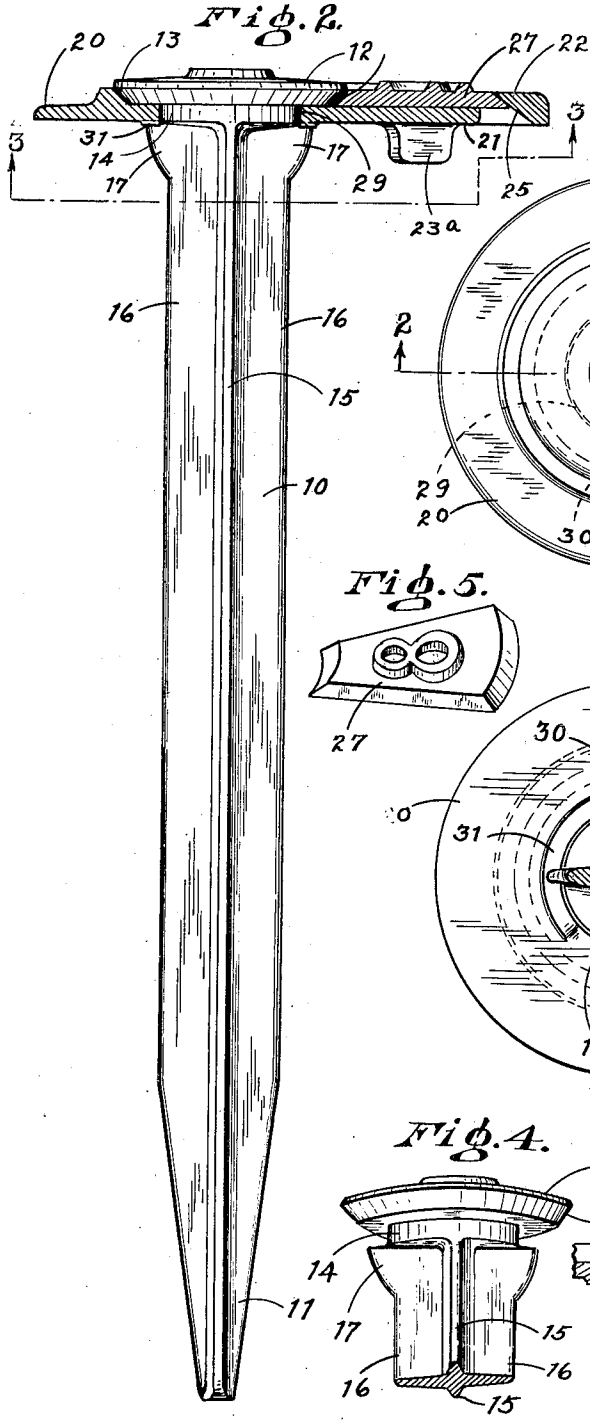


Fig. 1.

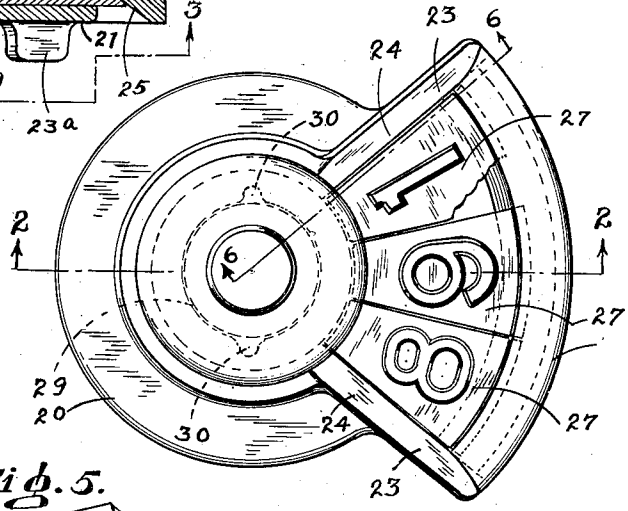
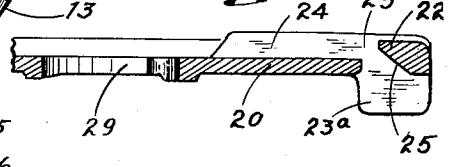


Fig. 5.

Fig. 3.

Fig. 4.

Fig. 6.



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Fig. 8.

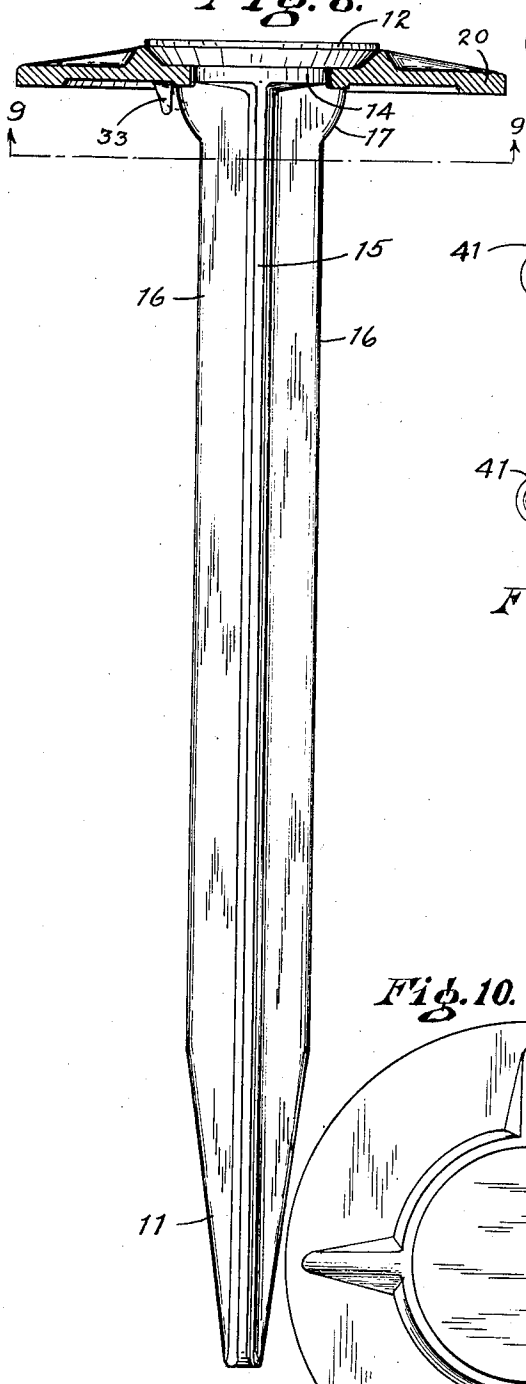


Fig. 7.

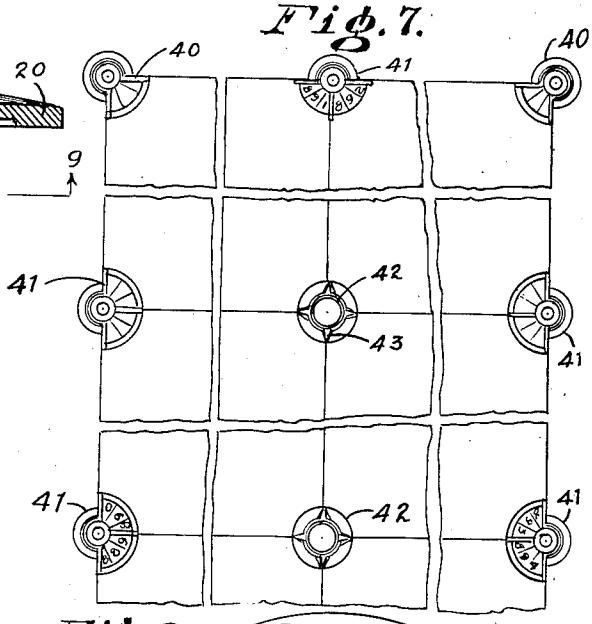


Fig. 9.

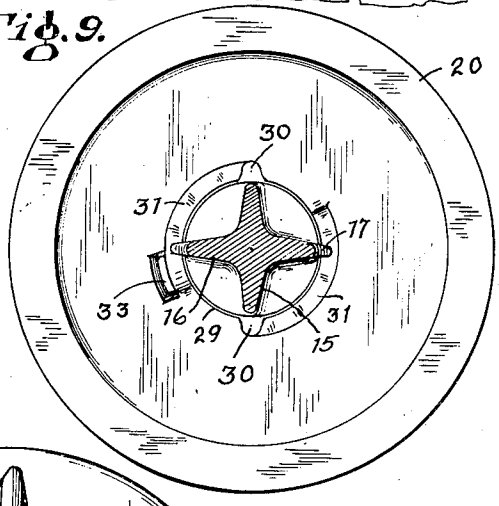
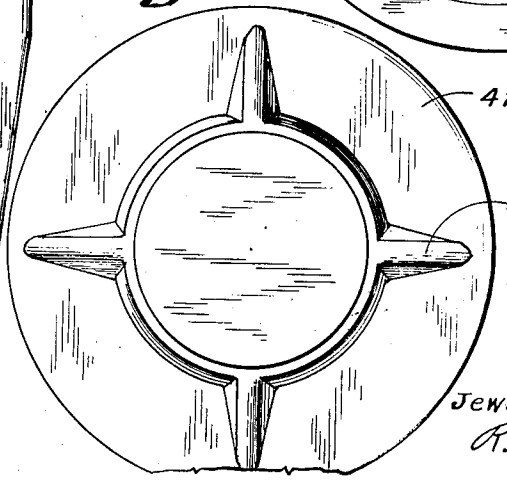


Fig. 10.



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MARKER

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Application June 27, 1938, Serial No. 216,050

10 Claims. (Cl. 40—140)

This invention relates broadly to markers for indicating the boundaries and identification symbols for plotted areas of land and pertains further to improvements in markers of the type in which the intelligence is attained through interchangeable insert pieces or letter blocks mounted in holders of uniform design.

One of the objects of the invention is to provide a marker assembly which embodies a holder plate constructed to facilitate the application of a plurality of letter blocks thereon contemporaneous with the assembly of the plate with the supporting member therefor.

Another object of the invention is to provide a marker which is sturdy of structure, durable and formed in such a manner as to avoid the necessity of any machine work other than snag grinding operations.

Other objects and advantages more or less ancillary of the foregoing and the manner in which all the various objects are realized will appear in the following description which, considered in connection with the accompanying drawings, sets forth the preferred embodiment of the invention.

In the embodiment chosen herein for the purpose of illustration the marker is of the form employed to indicate the corners, lot number and boundary lines of plotted areas of land. Such, for example, as real estate subdivisions, graveyard lots and golf course markings. In the latter case, the indicia on the markers would obviously indicate the hole number, hole par, yardage and symbols of direction. It will be understood, however, that the improved marker is adapted for use in other environs and with both fixed and mobile types of personal property. Moreover, that such applications of the marker are contemplated as falling within the scope and spirit of the present invention.

Referring to the drawings:

Fig. 1 is a plan view of a marker of the form used to identify the lot number and corner or boundary lines of a plot of land;

Fig. 2 is a vertical section through the marker plate illustrated in Fig. 2, the section being taken on a plane indicated by the line 2—2 in Fig. 1, but with the supporting stake shown in elevation;

Fig. 3 is a transverse sectional view through the supporting stake, the section being indicated by the line 3—3 in Fig. 2;

Fig. 4 is a fragmentary view in perspective of the upper portion of the stake;

Fig. 5 is a view in perspective of one of the insert pieces or letter blocks supported by the holder plate;

Fig. 6 is a transverse radial section through the holder plate, the section being taken on a plane indicated by the line 6—6 in Fig. 1;

Fig. 7 is a diagram illustrating the application of the marker and various modifications thereof upon small plots of land;

Fig. 8 is a vertical sectional view of the marker plate illustrated in the center of the diagram shown in Fig. 7, the supporting stake associated with the marker plate being illustrated in elevation;

Fig. 9 is a transverse section through the stake, the section being taken on a plane indicated by the line 9—9 in Fig. 8; and

Fig. 10 is a plan view of the marker shown in Figs. 8 and 9.

Referring first to Fig. 2, the marker assembly comprises a stake 10, preferably of cruciform transverse section having a tapered or pointed end portion 11. The opposed end of the stake is formed with an annular flange or head 12 having the peripheral edge 13 thereof, beveled inwardly. The stake is also formed with an annular boss 14 subjacent the flange 12, the diameter thereof being equal the dimension across the crest of the ribs 15 formed in the shank of the stake 10. Other of the ribs 16 of the shank of the stake 10 are formed with ears 17 extending laterally beyond the periphery of the boss 14.

The marker plate comprises a disc 20 of general circular configuration having a segment 21 extended therefrom upon the outer edge of which there is an arcuate rail 22 supported by webs 23 constituting extensions of bosses 24 formed in the upper face of the plate.

As will be seen in Figs. 2 and 6, the webs 23 are formed with depending lugs 23a which are provided to reinforce the structure, and in addition to relieve the shrinkage strains in the metal from which the plate is cast. The upper face of the rail 22 is disposed above the plane of the segmental portion 21 of the marker plate, the inner edge 25 thereof being formed with an outwardly beveled face 25. The ribs 23 are likewise disposed above the face of the plate 21 and are formed with vertical side walls to facilitate the retention of the insert pieces 27 which, in the interest of clarity, will be referred to hereinafter as letter blocks, irrespective of whether the characters thereon be in the form of numerals, symbols or letters. The letter blocks, as will be seen in Figs. 2 and 5, are con-

structed with beveled end walls adapted for engagement with the inclined faces 13 and 25 of the stake head and rail respectively. However, satisfactory results may be obtained by forming the ends of the letter blocks normal the plane of the body thereof and constructing the faces 13 and 25 of the stake head and rail with vertical end walls. The plate 20 is formed with an opening 29, the central portion thereof for the reception of the circular boss 14 beneath the head of the stake 10. The opening 29 is constructed with notches 30 disposed to accommodate the assembly of the ears 17 therethrough.

As will be seen in Figs. 2 and 3, the lower face of the plate 20 is formed with inclined cam faces 31 circumambient the opening 29. These cams are provided to facilitate the securement of the plate upon the stake which is effected when the stake is rotatively adjusted to bring the shouldered portion 32 of the ears 17 into such position upon the cams as to draw the head of the stake into clamping engagement with the face of the plate 20.

The improved marker is preferably formed of malleable cast iron, the plate 20, as shown in the embodiment illustrated in Figs. 8 and 9, being provided with a lug 33 disposed in contiguous relation to the ears 17 so that it may be bent inwardly as shown in dotted lines in Fig. 8 to engage the face of one of the ears after assembly and thus prevent the removal of the plate from the stake.

In Fig. 7, the markers are illustrated in the manner in which they may be employed to define the lot numbers and boundary lines of plots of land, such embodiments including the marker 40, shown in Fig. 1, which is of the type adapted to indicate the corner of a lot and also bear indicia showing the lot number thereof. The lot numbers and boundary line of two contiguous lots are indicated by the marker 41 which is formed with the segmental portion of the marker plate, enlarged to accommodate the assembly of a second series of letter blocks, preferably numbers of three digits, as shown. The intersecting boundary lines between more than two adjacent lots may be marked with a plate 42 formed with radially disposed ribs 43 arranged to indicate the convergence of the lot boundary lines.

In the marker shown in Fig. 1, the plate 20 is constructed to receive at least three of the letter blocks 27. Such structure contemplates the use of marker plates of uniform design with interchangeable letter blocks having single digits thereon, which may be arranged to form the desired numerical combination.

It will be understood that indicia other than indicated in Fig. 5, may be cast or engraved upon the blocks 27, such for instance, as the characters required for marking a golf course where it might be advantageous to indicate with symbols the direction of successive tees, yardage and similar informative data.

When the improved marker is employed for the identification of personal property the shank of the stake may be shortened and so formed as to accommodate the adfixture of the head 12 of the stake to the chattel. In such case the indicia in the plate 20 may be arranged to show a serial number, ownership identification or other suitable marks or legends.

Although the foregoing description is necessarily of a detailed character, in order that the invention may be completely set forth, it is to be understood that the specific terminology is not intended to be restrictive or confining, and that various rearrangements of parts and modifications of detail may be resorted to without departing from the scope or spirit of the invention as herein claimed.

I claim:

1. A marker comprising a supporting member, a plate mounted thereon, letter blocks on said plate and means on said supporting member for clamping said blocks upon said plate and said plate upon said supporting member.

2. A marker comprising a supporting member, a flange thereon, a plate mounted on said supporting member, letter blocks mounted on said plate and means coordinated with said flange for locking said blocks and said plate in assembled relation.

3. A marker comprising a stake, a flanged head thereon, a plate having an aperture therein, letter blocks on said plate, said stake extending through said aperture with the flanged head thereof engaged with said plate and said letter blocks, and means for clamping said plate, letter blocks and stake in assembled relation.

4. A marker comprising a plurality of letter blocks, a supporting plate therefor and a stake, said plate having an aperture therein for the reception of said stake, a flange on the end of said stake engaged with said blocks and said plate, a cam on said plate and lugs on said stake engageable with said cam for clamping said blocks on said plate and said plate on said stake.

5. A marker comprising a removable letter block, a supporting plate therefor, a rail on said plate engaged with one edge of said letter block, said plate having an aperture therein for the reception of said stake, a flange on said stake engaged with the opposed end of said letter blocks and said block and a lug on said plate adapted when bent to lock said plate and said stake in assembled relation.

6. A marker comprising a plurality of interchangeable letter plates, beveled edges on the opposed ends thereof, a plate for supporting said letter blocks, a rail thereon having a beveled face engaged with a beveled edge on said letter blocks, a stake, a beveled head thereon engaged with the other beveled edge of said letter blocks and with said plate, said plate having an aperture therein for the reception of the shank of said stake, longitudinal flanges formed in the shank of said stake, and a malleable lug on the lower face of said plate adapted when bent for engagement between said longitudinal flanges in said stake.

7. A marker comprising a malleable iron stake formed with longitudinal veins in the shank thereof, a head on the end thereof, a plate having an aperture therein for the reception of the shank of said stake, a plurality of interchangeable letter blocks on said plate, a rail on said plate engaged with one edge of said letter blocks, the head on said stake being proportioned to engage the opposed end of said blocks, a cam on the lower face of said plate, ears on said stake engaged with said cam, and a lug on said plate adapted to be bent inwardly between said veins in the shank of said stake.

8. A marker comprising a letter block, a plate, and a supporting member, means on said plate for securing one edge of said letter block, means on said supporting member for supporting another edge of said letter blocks and a mecha-

nism for locking said plate upon said supporting member.

9. A marker for indicating the boundary lines and lot number of a plot of land comprising a stake, a circular disk thereon, a radially enlarged segment thereon, a plurality of interchangeable letter blocks within said segment, a ledge on said segment for the support of one edge of said letter blocks, indicia on said plate separating certain of said letter blocks, a flange on said stake engaged with said plate and an edge of said letter blocks, a cam on said plate, and a shoulder on said stake engaged with said cam.

10. A marker for indicating the boundary lines of a plot of land, comprising a disk, indicia thereon for indicating the point of convergence of the boundary lines to be established, a stake, said plate having an aperture therein for the reception of said stake, and means for locking said plate upon said stake.

JEWELL W. VANDERVEER.