L. G. HAASE.

MOLD FOR CONCRETE SIGN POSTS.

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915,287.

Patented Mar. 16, 1909.

Fig. 1.

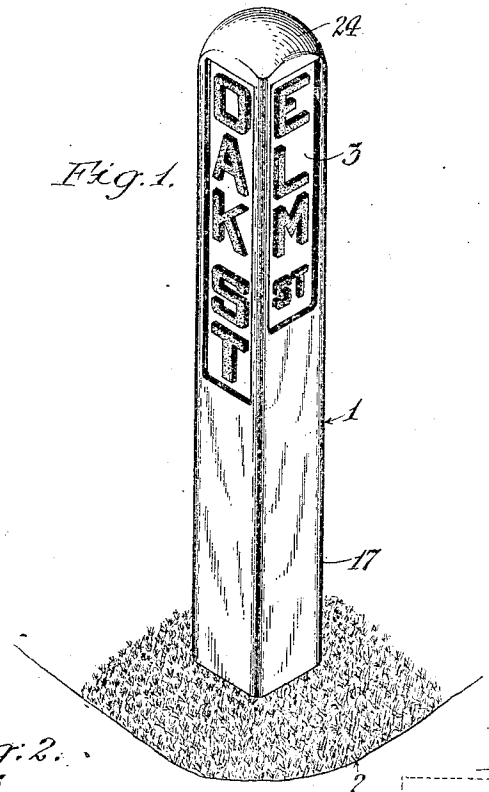


Fig. 2.

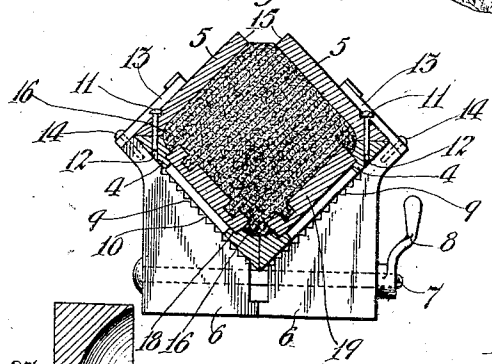


Fig. 3.

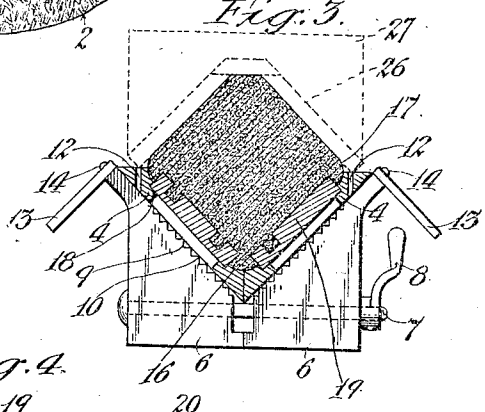


Fig. 4.

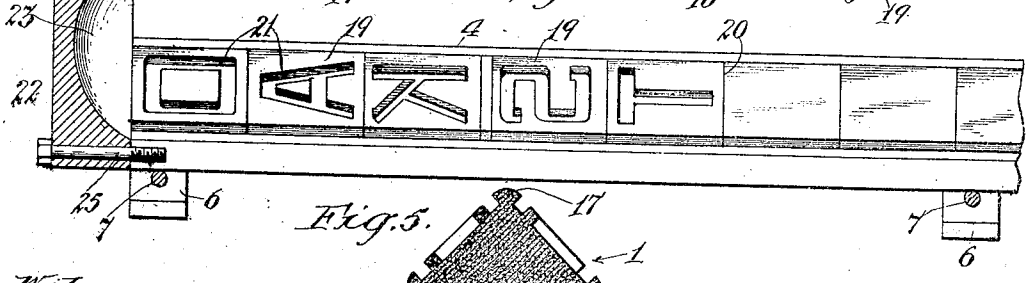
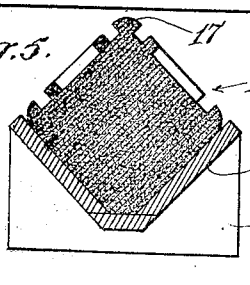


Fig. 5.



Witnesses:-

Louis W. Gratz.

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UNITED STATES PATENT OFFICE.

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MOLD FOR CONCRETE SIGN-POSTS.

No. 915,287. Specification of Letters Patent. Patented March 16, 1909.

Application filed June 24, 1908. Serial No. 440,074.

To all whom it may concern:

Be it known that I, LEO G. HAASE, a citizen of the United States, residing at Pasadena, in the county of Los Angeles and State of California, have invented a new and useful Mold for Concrete Sign-Posts, of which the following is a specification.

The main object of the present invention is to provide an improved molding means whereby the molding of such cement posts is expedited and cheapened.

In forming sign posts as for use upon street corners and other places, it is very desirable that they be formed from material that can be readily provided with sign or other indicating characters, and also that the posts will be lasting or not readily destroyed by the elements.

It has been found that metal is liable to rust and decoloration when exposed to the weather, or it is too costly, when formed with sufficient strength and rigidity, to adapt it for use in all places, and it has also been found that wood is too liable to decay when buried in the earth to provide a desirable means for forming a sign for streets and roadways. On the other hand I have discovered that a very neat and desirable sign post can be formed from cement with the names of the street, or other information, made a permanent part thereof at the time the post is made, either in the same or of a different color to render said name more easily distinguishable.

The accompanying drawings illustrate a street sign made in accordance with my invention, and also the means for constructing the same.

Figure 1 is a perspective view of one form of post or street sign made in accordance with my invention. Fig. 2 is a transverse sectional view of the mold or former with a post therein. Fig. 3 is a similar view of the mold with part of the side removed. Fig. 4 is a longitudinal sectional view of the mold without the other side pieces. Fig. 5 is a sectional view of the post resting upon the trough, after the front pieces have been removed.

Referring more particularly to the drawings, which are for illustrative purposes, and, therefore, are not drawn to any particular scale, 1 indicates a post made in accordance with my invention which may be of any desired size and height, it being shown substantially square in cross section and of a convenient height for placing it upon or adjacent to the corner of a street or sidewalk 2. The post 1 is formed from concrete or similar plastic material and has its upper end provided with letters or characters to indicate the streets, as "Oak street" and "Elm street," respectively. These letters or characters can be formed in the sides of the post in any desired manner, they being shown as raised letters located within a sunken field 3. But it is evident that they could be formed to project from or be sunken in a plain field or surface without departing from the spirit of my invention.

In forming a street sign or post as above described, I prefer to construct a substantially rectangular box or receptacle from lower or front side pieces 4 and rear or top pieces 5, as shown in Fig. 2. The mold or former is preferably held in its receptive position by means of a cradle formed from two base pieces 6, 6, which are held together by means of a clamp, as a bolt 7 and handle nut 8. The inner or adjacent faces of the base pieces are inclined, as shown at 9, and preferably provided with teeth or projections 10 for engaging with the side pieces 4 and holding them against slippage.

The upper side pieces are loosely mounted upon the lower side pieces and held thereon in any suitable manner, pins 11 being shown which extend down into perforations 12 in the side pieces 4, and also latches 13 which are pivotally secured to the blocks 6, 6, by bolts or pins 14. The adjacent edges of the side pieces are in actual contact except the upper edges of the top side pieces 5 which are preferably located at a slight distance from each other, as indicated at 15, and said edges are preferably curved as shown at 16 to give a rounding appearance to the corners of the post as shown at 17. The side pieces 4 are preferably formed substantially as open frames with their inner faces channeled or recessed, as shown at 18, within which are mounted the dies or matrices 19 for forming the letters or other insignia for giving the desired information. The matrices 19 rest on the shouldered portions of the bottom members, as shown, so that said matrices can be removed transversely to the plane of said bottom members. This construction has

certain advantages over a construction wherein the matrices are removable by sliding them parallel to the plane of the mold members, as they can be more quickly removed and replaced. The matrices 19 are preferably formed in sections, as shown at 20 in Fig. 4, with the desired characters formed upon a portion of them as shown at 21 in Fig. 4, and the others left plain. A suitable cap or end piece 22 is provided for the mold or side pieces with its inner face formed into any desired shape so as to register with the hollow or cavity between the side pieces and thereby give the upper end of the post the desired configuration, the cap being hollow, as shown at 23, so as to cause the upper end of the post to be rounded, as shown at 24. The cap may be secured to the side pieces in any desired manner, as by means of bolts 25.

In constructing a street sign or guide post as above described, the side pieces 4 are provided with the matrices to form the desired name or characters upon one or both sides of the post, according to the place the post is to occupy, and said side pieces are then placed longitudinally within the clamps 6. Before placing the matrices in the frames or side pieces 4, the cavities therein, when it is desired to form raised letters, as in the present instance, are filled with plastic material, as cement, which is preferably of a different color from that of the remaining portion of the post so as to be more conspicuous. After the matrices have been filled in this manner and the side pieces placed in the clamp to form a trough like receptacle, as shown more particularly in Fig. 3, the trough is then filled with the material, from which the pot is to be formed, substantially even with the upper edges of the trough or extending a suitable distance above the same. The side pieces are then placed in position upon the sides 4 and secured as shown in Fig. 2, whereby an inclosed cavity is formed with a slight opening left at the upper edge between the two upper edges of the same through which the rest of the material can be inserted to completely fill the mold or cavity and thereby complete the post. After the material, as cement, which I prefer to use, and which may be formed in accordance with any desired formula, is allowed to set or harden, the mold is then removed by taking out the bolts 11 and swinging the latches 13 down into the position shown in Fig. 3. A temporary trough like structure 26 is placed upon the post in place of the side pieces 4 and the post and trough are then inverted as shown in Fig. 5, and the clamps and side pieces 4 removed. The trough 26 is held in its upright position for retaining the post by means of suitable supports or cradles 27. After the post has remained in this position the desired length of time for the material to become thoroughly set and hardened, the post is ready to be taken to the place it is to be used and inserted in the ground or otherwise properly secured. By constructing a post in this manner it can be made as solid and indestructible as rock itself and the desired characters can be formed upon or within it as readily almost as the post could be formed with plain sides without such characters. As there will be no metal about the post to discolor the surface, the characters upon the post will always be plain and distinct, and as the elements can not possibly affect the post, the requirement of painting or otherwise protecting the post, as is necessary with metal and wood, will be entirely avoided, and as the portion of it that is buried within the ground is not affected by moisture or otherwise, there will never be any occasion for replacing the post with a new one except in case of actual breakage of the portion that extends above the ground.

Having described my invention, I claim:—

1. In a mold for forming sign posts from plastic material, base pieces having their upper ends inclined and serrated, a clamp for holding said base pieces in supporting position, a substantially rectangular mold supported on said base pieces with two of its sides engaged with face pieces and provided with means for forming characters on the post, upper side pieces detachably secured to the lower side pieces and having their upper edges at a distance from each other to form an opening longitudinally of the mold, and a cap piece for the mold.

2. In a mold for forming sign posts from plastic material, consisting of cradle like clamps, a mold on said supports substantially rectangular in cross section and formed from separable side pieces, bolts and latches for securing the top side pieces to the bottom side pieces, and a recessed cap detachably secured at one end of said mold.

3. A mold for cement posts and the like, consisting of two bottom members, cradle means for supporting said bottom members in juxtaposition and in angular relation to form a trough, two top members, and means for detachably supporting said top members on the bottom members, said top members when so supported extending over the bottom members to inclose a mold space the shape of the posts to be molded.

4. In a mold for forming sign posts from plastic material, four side pieces arranged so as to form a longitudinal cavity substantially square in cross section and having one side open, the adjacent edges of the side pieces being curved except at said opening and two of said side pieces being each substantially in the form of an open frame having recesses upon its inner face, removable sections mounted in said recesses, a portion of said sections being recessed to form characters upon two sides of the post, and a cap

removably secured to one end of the mold and having its inner face recessed to register with said cavity.

5. A mold for cement posts and the like comprising two bottom members, a cradle support for said bottom members at each end thereof, said support consisting of two members having inclined inner faces to support said mold members at an inclination so as to form a trough, means for clamping the two parts of said cradle supports together, mold means extending over the bottom mold means and detachably secured thereto, and a cap piece for the mold.

6. A mold for cement posts and the like consisting of two bottom members, cradle means for supporting said bottom members in juxtaposition and in angular relation to form a trough, two top members, means for detachably supporting said top members on the bottom members, said top members when so supported extending over the bottom members to inclose a mold space the shape of the posts to be molded, said top mold members being separated at their upper edges to form an open space extending longitudinally of the mold, and a cap piece for the mold.

7. A mold for cement posts and the like consisting of two bottom members each having a portion formed as an open frame, said portions being shouldered, a plurality of removable matrices resting on said shouldered portions and removable transversely to the plane of said bottom members, cradle means for supporting said bottom members in juxtaposition and in angular relation to form a trough, two top members, and means for detachably supporting said top members on the bottom members, said top members when so supported extending over the bottom members to inclose a mold space the shape of the posts to be molded.

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this 16th day of June 1908.

LEO G. HAASE.

In presence of—
FREDERICK S. LYON,
FRANK L. A. GRAHAM.