

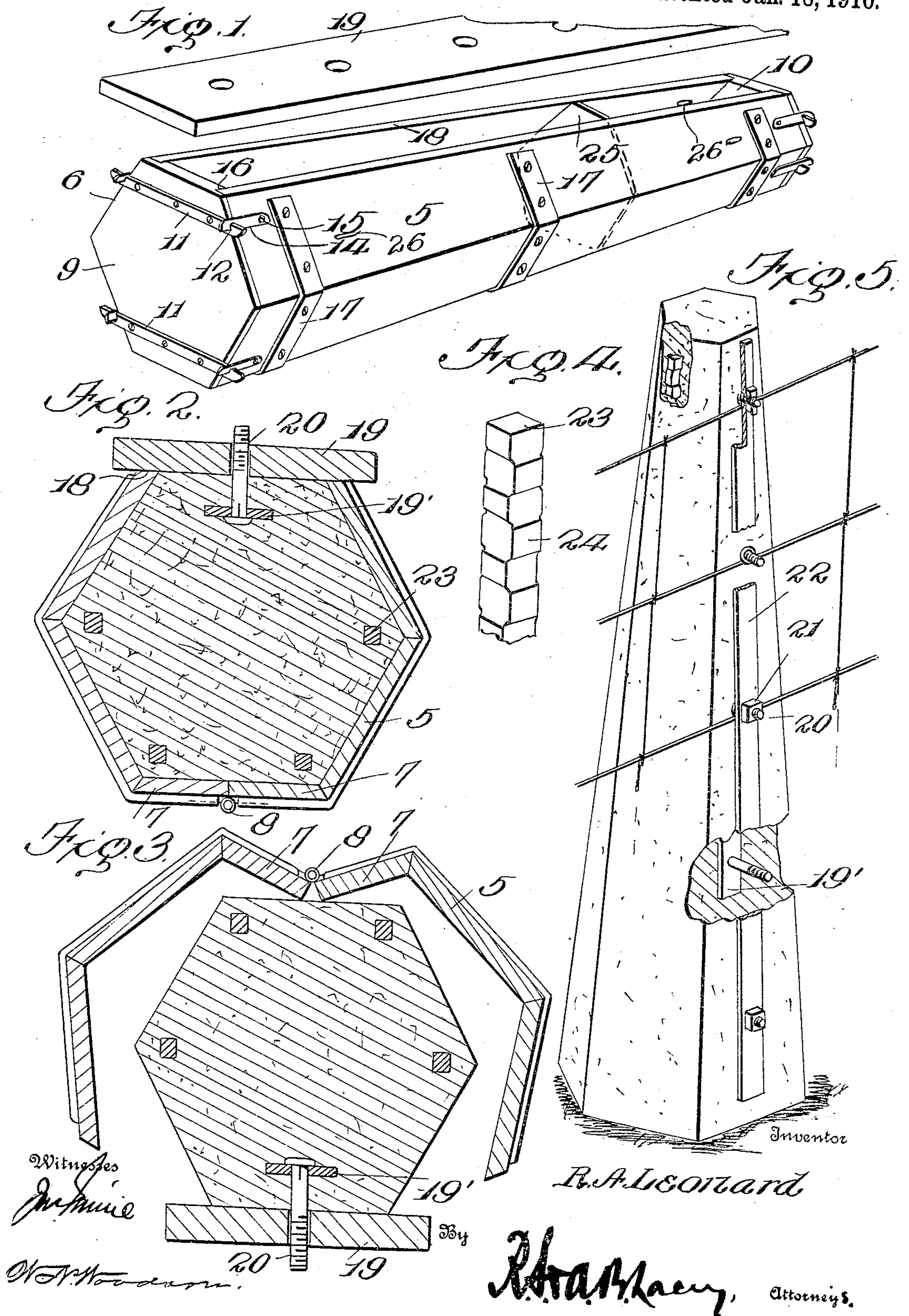
R. A. LEONARD.

POST MOLD.

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946,606.

Patented Jan. 18, 1910.





# UNITED STATES PATENT OFFICE.

RALPH A. LEONARD, OF EDON, OHIO.

POST-MOLD.

946,606.

Specification of Letters Patent.

Patented Jan. 18, 1910.

Application filed February 24, 1909. Serial No. 479,711.

*To all whom it may concern:*

Be it known that I, RALPH A. LEONARD, citizen of the United States, residing at Edon, in the county of Williams and State of Ohio, have invented certain new and useful Improvements in Post-Molds, of which the following is a specification.

This invention relates to molds for making fence posts and has for its object to provide a strong, durable and thoroughly efficient mold of this character by means of which artificial stone fence posts of hexagonal formation may be expeditiously and economically manufactured.

A further object of the invention is to provide a mold including pivotally connected side sections having end sections or walls detachably combined therewith and normally supported in engagement with the side sections by suitable fastening devices, provision being also made for reinforcing the post and providing the latter with wire engaging devices during the formation of the post.

A still further object is to provide a reversible mold, the side sections of which are movable laterally to open position so as to expose the molded product and thus permit the ready removal of the same without chipping, cracking, or otherwise mutilating the post.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions, and minor details of construction may be resorted to within the scope of the appended claim.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of the mold constructed in accordance with my invention; Fig. 2 is a transverse sectional view of the same; Fig. 3 is a similar view showing the mold reversed and the side sections moved laterally to open position so as to permit the removal of the fence post; Fig. 4 is a detail perspective view of one end of one of the reinforcing rods or bars; Fig. 5 is a perspective view of the molded fence post, portions being broken away to more clearly show the construction of the same.

Corresponding and like parts are referred to in the following description and indicated

in all the views of the drawings by the same reference characters.

The improved mold forming the subject matter of the present invention comprises a hexagonal body portion formed of metal, wood, or other suitable material, and including movable side sections 5 and 6 each formed of angularly disposed longitudinal strips preferably extending the entire length of the mold, as shown. Secured to the lower longitudinal strip of each side section is a bottom section 7, the abutting faces of which are pivotally connected by suitable hinges 8 so as to permit the side sections to be moved laterally to open position and thus expose the molding product.

Detachably secured to the opposite ends of the mold are end sections or walls 9 and 10 to the outer faces of which are secured longitudinal bars 11 having their free ends extended laterally beyond the adjacent peripheral edges of the end sections and provided with inclined slots or kerfs 12 which interlock with similar slots or kerfs 13 formed in suitable locking members 14 pivotally mounted at 15 on the side sections of the mold, whereby the several sections may be rigidly supported in assembled position preparatory to introducing the cement, concrete or other plastic material within the molding compartment.

The end sections 9 and 10 are provided with shoulders 16 which conform to and bear against the interior walls of the side and bottom sections of the mold and thus assist in preventing the escape of concrete from the molding compartment.

The side sections are reinforced and strengthened by the provision of strap irons 17 which extend from points adjacent the upper longitudinal edges of the side sections to the inner longitudinal edges of the bottom sections, some of said strap irons constituting stops to limit the pivotal movement of the locking members 14. The upper longitudinal edges of the side sections are spaced apart to permit the introduction of cement or concrete and are provided with flat bearing surfaces 18 which form supports for a removable pallet 19.

A flat longitudinal bar 19' is preferably embedded in the cement or concrete during the formation of the post, said bar having a plurality of spaced bolts 20 rigidly secured thereto with their free ends projecting through the opening in the top of the mold-



ing compartment for engagement with clamping nuts 21. The bolts 20 are used for fastening the line wires, while the nuts 21 are arranged to bear against and clamp a retaining plate 22 in engagement with said wires, as best shown in Fig. 5 of the drawings. Provision is also made for reinforcing and strengthening the post by inserting one or more longitudinal rods or bars 23 in the cement, these reinforcing rods being provided with laterally extending projections 24 preferably disposed in staggered relation so as to cause the cement to adhere thereto and thus assist in anchoring the rods in the cement.

A removable partition 25 is arranged within the molding compartment and adjustable longitudinally of the mold so as to permit the formation of fence posts of different lengths.

In operation the mold is positioned on the ground or other suitable support with the bottom sections disposed in contact therewith after which the end sections 9 and 10 are secured to the opposite ends of the mold by means of the locking members 14. The cement, concrete or other plastic material is then shoveled or otherwise introduced into the molding compartment through the open side of the mold, the reinforcing rods and wire engaging devices being subsequently embedded in the concrete as before stated. The pallet 19 is then positioned on the upper longitudinal edges of the side sections with the terminals of the bolts 20 extending through the openings formed therein as best shown in Fig. 2 of the drawings. After the parts are thus assembled, the mold is reversed, that is to say, positioned on the ground with the pallet in engagement therewith, and in which position the locking devices are released and the side sections swung laterally to open position so as to permit the ready removal of the molded product.

While the mold is principally designed for manufacturing fence posts, it is obvious that it may be used with equally good results for molding hitching posts, pillars, columns, and analogous devices. When the mold is employed for manufacturing hitching posts, the side sections thereof may be formed with suitable round or longitudinally disposed slots 26 to permit the insertion of metallic rods having rings or eyes formed thereon so as to form a means for hitching horses thereto.

Having thus described the invention, what is claimed as new is:

A mold including an elongated body portion having laterally movable side walls, the upper longitudinal edges of which are spaced apart to form a cement receiving opening bottom sections rigidly secured to the side sections and having their inner edges pivotally united, reinforcing straps embracing the side and bottom sections of the mold, end sections interposed between the side sections and provided with angular shoulders adapted to bear against interior walls of the side and bottom sections, transverse bars secured to the exterior faces of the end sections and having locking grooves formed therein, locking members pivotally mounted on the side sections and provided with recessed ends arranged to enter the grooves in the locking bars, and a pallet forming a closure for the cement receiving opening and provided with spaced perforations to permit the passage of wire fastening devices, the rearward movement of the pivoted locking members being limited by engagement of the strap irons.

In testimony whereof I affix my signature in presence of two witnesses.

RALPH A. LEONARD. [L. s.]

Witnesses:

ALBERT SIEBERABER,  
O. OBERLIN.