F. RYDER.

FENCE POST MOLD.

APPLICATION FILED OCT. 5, 1908.

996,282.

Patented June 27, 1911.

2 SHEETS—SHEET 1.

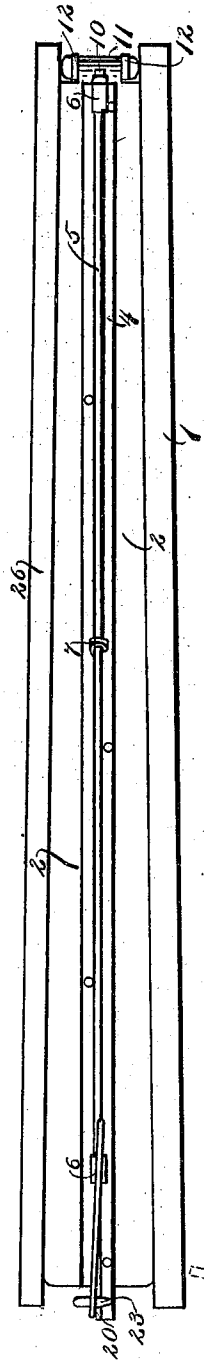

Fig. 1.

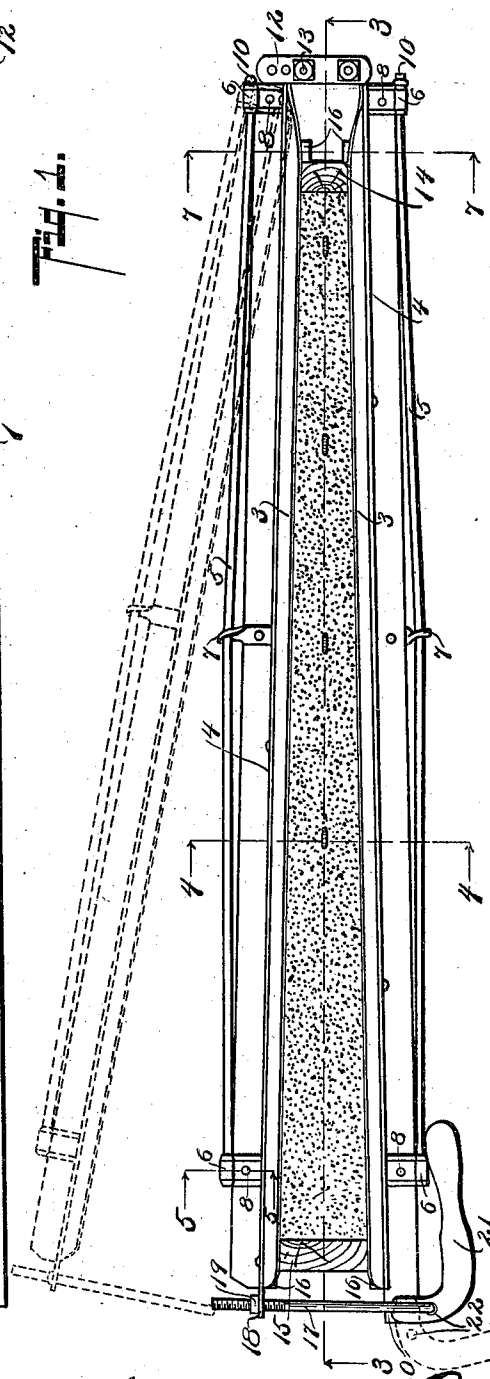

Fig. 2.

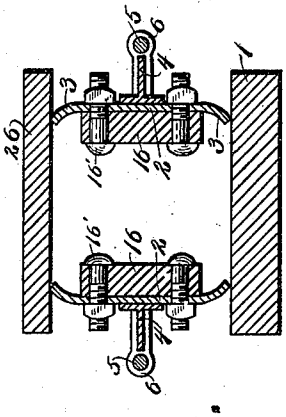

Fig. 3.

Witnesses

Phina Woodruff.

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2 SHEETS—SHEET 2.

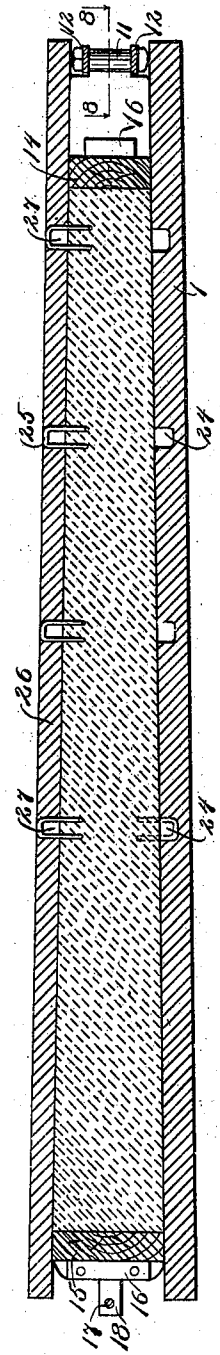

Fig. 3.

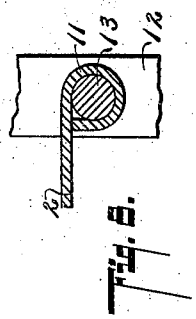

Fig. 8.

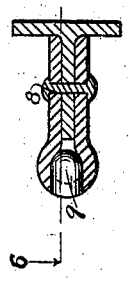

Fig. 5.

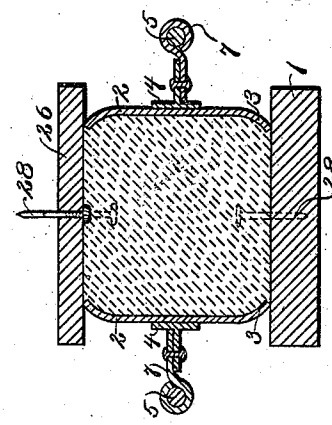

Fig. 2.

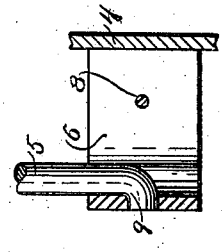

Fig. 6.

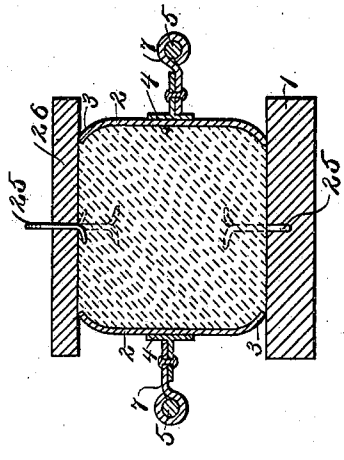

Fig. 4.

Witnesses

Rhina Woodruff

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Inventor

Frank Ryder

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# UNITED STATES PATENT OFFICE.

FRANK RYDER, OF MENDON, MICHIGAN, ASSIGNOR TO JOHN F. EVERT, OF MENDON, MICHIGAN.

## FENCE-POST MOLD.

996,282. Specification of Letters Patent. Patented June 27, 1911.

Application filed October 5, 1908. Serial No. 456,336.

*To all whom it may concern:*

Be it known that I, FRANK RYDER, a citizen of the United States, residing at the village of Mendon, county of St. Joseph, State of Michigan, have invented certain new and useful Improvements in Fence-Post Molds, of which the following is a specification.

This invention relates to improvements in fence post molds.

The main objects of this invention are: First, to provide an improved fence post mold, which is adjustable for the purpose of manufacturing posts of different sizes, and for the purpose of manufacturing posts of different taper. Second, to provide an improved fence post mold, which may be very quickly and rapidly manipulated and one which is light in weight and easy to handle. Third, to provide an improved fence post mold which is economical in structure, and very durable, and one which is not likely to get out of repair when in use.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawings, forming a part of this specification, in which:

Figure 1 is a side elevation of my improved fence post mold. Fig. 2 is a plan view thereof, one of the walls being shown by dotted lines in its open position. Fig. 3 is a vertical longitudinal section, taken on a line corresponding to line 3—3 of Fig. 2. Fig. 4 is a vertical cross section, taken on a line corresponding to line 4—4 of Fig. 2. Fig. 5 is an enlarged, detail section, taken on a line corresponding to line 5—5 of Fig. 2, showing details of one of the truss rod clips. Fig. 6 is an enlarged detail section taken on a line corresponding to line 6—6 of Fig. 5. Fig. 7 is a cross section taken on line 7—7 of Fig. 2, showing the adjustable end supports. Fig. 8 is a detail section taken on line 8—8 of Fig. 3, showing details of the hinge connections for the side walls. Fig. 9 is a detail, vertical cross section, corresponding to that of Fig. 4, of a slightly modified construction.

In the drawings, similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawing, the bottom plate 1 is preferably in the form of a flat board or plank. The side walls 2 are preferably formed of sheet metal and their edges are preferably curved inwardly, at 3. The sheet metal side walls are preferably reinforced by means of angle bars 4, which are arranged centrally and longitudinally thereof. The side walls are preferably further reinforced by means of the truss rods 5. These truss rods are secured to the angle bars 4 by means of clips 6, and are provided with central truss blocks 7. The clips 6 are adapted to straddle the outwardly projecting arms of the angle bars and are secured thereto by means of rivets, 8. The truss rods are provided at one end with hooks 9, which engage the clips, and at the other with nuts 10, whereby they may be adjusted. The side walls are connected at one end by an adjustable hinge connection, preferably consisting of the knuckles 11, formed integrally with the side walls,—see Fig. 8.

A pair of links 12 is secured to the knuckles by the pintle or pivot 13, and the links are preferably provided with a plurality of holes for the pivot bolts so that they may be adjusted to regulate the size and the taper of the post. The end walls 14 and 15 are arranged between the side walls to be clamped thereby and are supported in an upright position by means of the rests 16, which are carried by the side walls. These rests are adjustably secured in position by means of the bolts 16′ so that long or short posts may be made, as desired, perforations being provided for that purpose. The side walls are adjustably secured together at their other end by means of the link 17, which is arranged through the projecting end 18 of one of the reinforcing bars, the link being threaded and provided with a nut 19, so that its length may be adjusted. On the projecting end 20 of the other reinforcing bar, I pivot the lever 21. I pivot the hooked end 23 of the link 17 through the lever 21 at the hole 22. The hole 22 is so located relative to the pivot for the lever that when the lever is swinging into its closed position, the end of the link 17 is carried past the center

thereby locking the parts in their closed position.

The bottom 1 is preferably provided with sockets 24 to receive the fence fasteners or staples 25 which are so supported as to be held in position for embedding of their ends in the post as it is molded. The top-plate 25 may be provided with openings 27 through which the fasteners 26 may be inserted after the mold is filled. This is the preferred form as the holes do not clog up with the concrete material. By inserting the staples or fasteners after the top-plate 26 has been put in position, they are firmly embedded particularly if the top board is tapped with a hammer or the like to firmly settle the concrete material about the same.

In the modified construction shown in Fig. 7, nails are used as fasteners. The openings or sockets in the top and bottom plate being suitably formed to receive them. By thus forming and arranging the parts, I secure a fence post mold which is capable of very rapid manipulation, is easily handled and is also very economical to produce. It may be adjusted to secure posts of different sizes, and also for the purpose of varying the taper.

In use, the bottom plate is placed, the side walls arranged thereon and closed. The material is then placed in the mold, the reinforcements placed and the material tamped and troweled off. The top plate for placing the staples is then used and the mold is removed at once, no time being required for the post to set. The post is allowed to harden while resting on the bottom plate after the mold is removed.

I have illustrated and described my improved post mold in detail in the form preferred by me on account of its structural simplicity and economy, its strength and convenience in use. I am, however, aware that it is capable of considerable variation in structural details without departing from my invention, and I desire to be understood as claiming the same specifically, as illustrated, as well as broadly.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a post mold, the combination with the bottom plate, of a pair of side walls formed of sheet metal, said side walls being adapted to rest on said bottom plate; angle iron reinforcing bars for said side walls secured centrally and longitudinally thereof; truss rods for said side walls secured to said reinforcing bars and in a spaced relation thereto, whereby they are adapted to serve as handles for the side walls; an adjustable connection for said side walls at one end, comprising knuckles formed integrally with said side walls; pintle bolts; a pair of links having a plurality of holes therein for said pintle bolts; end walls adapted to be clamped between said side walls; inwardly-projecting supporting rests on said side walls for said end walls; and means for securing the swinging ends of said walls together, comprising a link adjustably secured to one of said walls having a hook at its free end, and a lever having a hole therein adapted to receive said hook of said link, pivoted on the other side wall, said hole being arranged relative to said pivot so as to swing past the center thereof when said lever is in its closed position, thereby locking the parts in their closed position.

2. In a post mold, the combination with the bottom plate, of a pair of side walls, said side walls being adapted to rest on said bottom plate; an adjustable connection for said side walls at one end, comprising knuckles formed integrally with said side walls; pintle bolts; a pair of links having a plurality of holes therein for said pintle bolts; end walls adapted to be clamped between said side walls; inwardly-projecting supporting rests on said side walls for said end walls; and means for securing the swinging ends of said walls together, comprising a link adjustably secured to one of said walls having a hook at its free end, and a lever having a hole therein adapted to receive said hook of said link, pivoted on the other side wall, said hole being arranged relative to said pivot so as to swing past the center thereof when said lever is in its closed position, thereby locking the parts in their closed position.

3. In a post mold, the combination with the bottom plate, of a pair of side walls formed of sheet metal, said side walls being adapted to rest on said bottom plate; angle iron reinforcing bars for said side walls secured centrally and longitudinally thereof; truss rods for said side walls secured to said reinforcing bars; a hinge connection for said side walls at one end; end walls adapted to be disposed between said side walls; and means for securing the swinging ends of said walls together, comprising a link adjustably secured to one of said walls having a hook at its free end, and a lever having a hole therein adapted to receive said hook of said link, pivoted on the other side wall, said hole being arranged relative to said pivot so as to swing past the center thereof when said lever is in its closed position, thereby locking the parts in their closed position.

4. In a post mold, the combination with the bottom plate, of a pair of side walls, said side walls being adapted to rest on said bottom plate; a hinge connection for said side walls at one end; end walls adapted to be disposed between said side walls; and means for securing the swinging ends of said walls together, comprising a link adjustably secured to one of said walls having a hook at its free end, and a lever having a

hole therein adapted to receive said hook of said link, pivoted on the other side wall, said hole being arranged relative to said pivot so as to swing past the center thereof when said lever is in its closed position, thereby locking the parts in their closed position.

5. In a post mold, the combination with the bottom plate, of a pair of side walls formed of sheet metal; angle iron reinforcing bars for said side walls arranged longitudinally thereof; a hinge connection for said side walls at one end comprising knuckles formed integrally with said side walls; means for securing the swinging ends of said walls together, comprising a link having a hook at one end threaded at the other arranged through one of said reinforces, said link being provided with an adjusting nut; and a lever pivoted upon the end of the other reinforce, said lever having a hole therein adapted to receive the hook of said link, said hole being arranged relative to said pivot so as to swing past the center thereof when the lever is in its closed position, thereby locking the parts in their closed position.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

FRANK RYDER. [L. S.]

Witnesses:
GEORGE RIDER,
GEORGE WORTHINGTON.