No. 714,184. Patented Nov. 25, 1902.

C. H. HUTCHINGS.

MACHINE FOR MOLDING CONCRETE FENCE POSTS.

(Application filed Feb. 8, 1902.)

(No Model.)

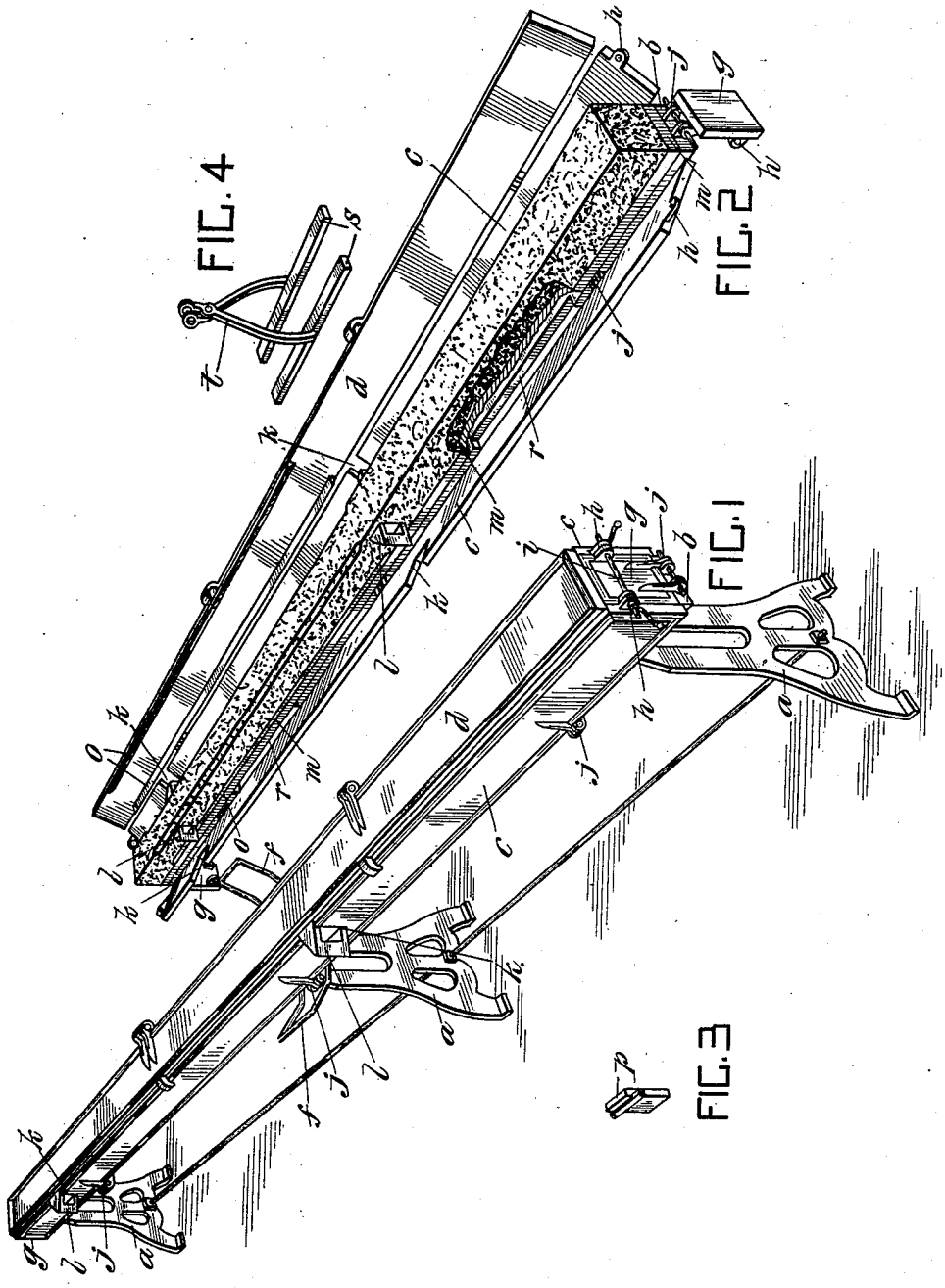


FIG. 4

FIG. 2

FIG. 1

FIG. 3

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MACHINE FOR MOLDING CONCRETE FENCE-POSTS.

SPECIFICATION forming part of Letters Patent No. 714,184, dated November 25, 1902.

Application filed February 8, 1902. Serial No. 93,271. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HENRY HUTCHINGS, of the city of Toronto, in the county of York and Province of Ontario, Canada, have invented certain new and useful Improvements in Machines for Molding Concrete Fence-Posts; and I hereby declare that the following is a full, clear, and exact description of the same.

In my application for Letters Patent of the United States prepared and executed by me on the 10th day of January, A. D. 1902, I have described a fence-post made of ordinary stone or stone-like material, in which the composition is made into an integral and practically unbreakable mass by means of longitudinally-disposed metallic stays or wires embedded in the body of the post during the molding of the material.

The present invention relates to a molding-machine for forming or casting the fence-posts described in the above application; and it consists of a series of stands, upon which is rigidly mounted the stationary mold bottom or bed, of substantially the same length and shape as one of the sides of the post. To this bottom or bed are hinged the sides of the mold, and to the top of one of the sides is hinged the cover or lid, and to the ends of the bottom or bed are hinged the end plates for molding the ends of the fence-posts. To be used in conjunction with the molding-machine is a removable or false bottom corresponding in size and shape with the stationary bottom or bed, the whole being constructed and arranged as hereinafter more fully set forth, and more particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of the complete molding-machine, showing all of the parts in their molding or operative positions. Fig. 2 is a similar view with the parts opened to permit of the removal of the fence-post when molded. Fig. 3 is a perspective view of one of the removable plates. Fig. 4 is a perspective view of the lifting-tongs.

Like letters of reference refer to like parts throughout the specification and drawings.

Mounted upon the standards *a* is the fixed or stationary bottom or bed *b* of the mold, corresponding in size and shape with the shape and dimensions of one of the sides of the fence-post. Hinged to the fixed or stationary bottom or bed *b* are the sides *c* of the mold, and hinged to one of the sides *c* is the top *d*. Connected to the middle of the fixed or stationary bottom or bed *b* is a supporting-arm *f*, by means of which the sides and top are held when opened to permit of the removal of the fence-post after the concrete has set. Hinged to the ends of the fixed or stationary bottom or bed *b* are the end plates *g* for molding the ends of the fence-post. The ends of the sides *c* and the end plates *g* are provided with lugs *h*, through which pass locking-bolts *i* to rigidly secure the end plates to the sides *c* and to prevent the lateral displacement of the sides until they have been released to allow of the removal of the molded fence-post. The hinges *j* for the sides, top, and end plates may be of any suitable construction, and so, also, may the supporting-arm for the sides and top. Formed in the sides *c* are vertical slots or grooves *k* to receive the sockets *l*, to be molded into the fence-post. To provide for the removal of the fence-post without injury to it, the machine is fitted with a removable bottom *m*, corresponding in size and shape with the fixed or stationary bottom or bed *b*. In molding the fence-post the sides and ends are turned into the position shown in Fig. 1 and held together by the locking-bolts *i*. The concrete is then placed in the machine with the stay-wires and sockets in their proper places and the whole solidly packed into an integral mass. The top is then turned into the position shown in Fig. 1 to mold the fourth side of the post. When the molding of the fence-post has been completed, the top *d* is opened, the locking-bolts *i* are then removed, and the sides and ends opened into the position shown in Fig. 2. The removable or false bottom *m*, with its molded fence-post, is then removed from the machine and placed in a convenient position for the fence-post to dry and harden. The top *d* and removable bottom *m* are provided with angle-molding strips *o* to form the chamfers at the corners of the post. The top of the molding-strips *o* may be varied, or they may be dispensed with, as called for by

the design of the post. When the machine is to be used for molding a fence-post not fitted with sockets *l*, a removable plate *p* is employed to fill in the slots or grooves *k*.

Formed in the sides of the bottom or bed *b* are elongated recesses *r* to receive the flanges *s* of the lifting-tongs *t*. The flanges *s* are of a sufficient length to provide a solid support for the removable bottom *m* to obviate the sagging of the bottom when loaded with the molded fence-post. After the fence-post has been molded and the sides and ends of the mold opened into a position to allow of the removal of the removable bottom and molded fence-post two pairs of lifting-tongs are brought into engagement with the mold, the flanges of each pair entering their respective recesses *r* and extending beneath the removable bottom *m*. The removable bottom *m*, with its molded fence-post, is then lifted from the mold and carried by the tongs to the place where it is to set and harden. By means of the recesses and the tongs I am enabled in a simple and convenient manner to handle the molded fence-post without running any risk of causing it to crumble away or become marked.

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

1. In a machine for molding fence-posts the combination of a suitably-supported bottom, sides and ends hinged to the bottom, a top hinged to one of the sides and a locking device to hold the sides, ends and top and bottom together, substantially as specified.

2. In a machine for molding fence-posts the combination of a suitably-supported bottom, sides and ends hinged to the bottom, a top hinged to one of the sides, a locking device to hold the sides, ends, top and bottom together, and vertical slots in the sides to receive the sockets for the fence-post, substantially as specified.

Toronto, January 10, A. D. 1902.

C. H. HUTCHINGS.

In presence of—
L. F. BROCK,
C. H. RICHES.