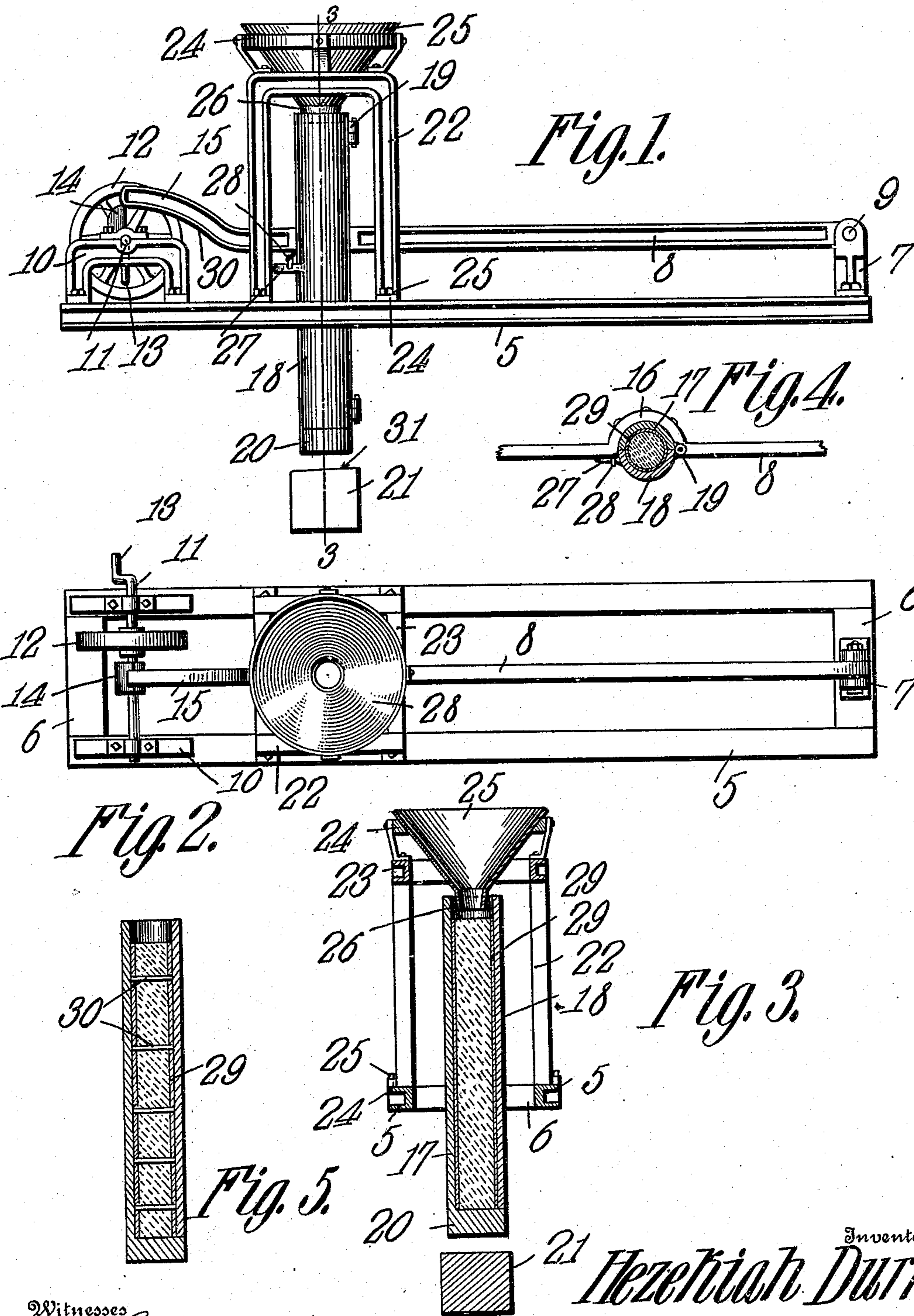


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CONCRETE POST MACHINE.  
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930,745.

Patented Aug. 10, 1909.



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# UNITED STATES PATENT OFFICE.

HEZEKIAH DURR, OF CRITTENDEN, KENTUCKY.

## CONCRETE-POST MACHINE.

No. 930,745.

Specification of Letters Patent.

Patented Aug. 10, 1909.

Application filed May 25, 1908. Serial No. 434,931.

*To all whom it may concern:*

Be it known that I, HEZEKIAH DURR, a citizen of the United States, residing at Crittenden, in the county of Kenton and State of Kentucky, have invented a new and useful Concrete-Post Machine, of which the following is a specification.

This invention relates to machines for making artificial stone fence posts and has for its object to provide a molding machine in which the tamping of the concrete is effected by intermittently jarring the mold thereby to thoroughly pack the concrete and thus produce a post of uniform density.

A further object of the invention is to provide a molding machine including a frame having a mold supporting lever pivotally mounted thereon and disposed in the path of movement of a revolving cam, there being an anvil arranged beneath the mold and adapted to receive the impact of the mold as the same is raised and lowered by the action of the cam.

A still further object of the invention is generally to improve this class of machines so as to increase their utility, durability and efficiency.

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 claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a side elevation of a molding machine constructed in accordance with my invention. Fig. 2 is a top plan view of the same. Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a top plan view of a portion of the pivoted lever showing the manner of attaching the mold thereto. Fig. 5 is a vertical sectional view showing the inner shell provided with rods or pins for forming the post with wire receiving openings.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved machine forming the subject matter of the present invention includes a supporting frame comprising spaced longitudinal sills 5 connected by transverse end bars 6 to one of which is bolted or otherwise rigidly secured a post or standard 7. The

upper end of the post or standard 7 is bifurcated for the reception of the adjacent end of an actuating lever 8, said lever being pivotally mounted within the bifurcated portion of the standard 7, as indicated at 9.

Secured to the longitudinal sills 5 of the supporting frame at one end of the latter are spaced brackets 10 in which is journaled a transverse shaft 11 carrying a fly wheel 12 and having one end thereof extended to form a terminal crank 13 by means of which the shaft may be rotated.

Secured to and mounted for rotation with the shaft 11 is a cam 14 adapted to engage the deflected end 15 of the lever 8 and intermittently lift the same. The intermediate portion of the lever 8 is bent laterally to produce a depression or socket 16 for the reception of one section 17 of the mold, the mating section 18 being pivotally connected to the section 17, as indicated at 19. The fixed section 17 is provided with a terminal wear plate 20, which latter forms a closure for the lower end of the mold and also serves to receive the impact of the mold when the latter drops by gravity on the anvil 21.

Disposed on opposite sides of the mold and secured in any suitable manner to the longitudinal sills 5 are uprights 22 connected at their upper ends by integral transverse bars 23 and having their fixed ends provided with laterally extending perforated flanges 24 adapted to receive bolts or similar fastening devices 25 by means of which the uprights 22 are secured in position on the longitudinal sills.

Secured to the transverse bars 23 is a skeleton frame 24 which supports a hopper 25, the latter being provided with a reduced funnel shaped mouth 26 through which the cement, concrete or other plastic material is fed from the hopper into the mold. A handle 27 is secured to the movable section 18 of the mold so that the mold may be conveniently opened to permit the discharge of the molded product, said handle being locked in closed position by a hook or similar fastening device 28. Disposed within the mold is an inner shell 29 preferably formed of sheet metal and which serves to prevent breakage of the molded post when the latter is removed from the mold and carried to the drying racks until sufficiently hard for use.

In operation, a quantity of cement, con-

crete or other plastic material is shoveled or otherwise introduced into the hopper 25 and allowed to gradually enter the mold. The shaft 11 is then rotated by turning the crank 13 which causes the cam 14 to bear against the inclined face 30 of the mold carrying lever to lift the same. As the cam passes from beneath the free end of the lever 28, the latter will drop by gravity on the anvil 21 and thus jar the contents of the mold so as to thoroughly compress the concrete and produce a post of uniform density. Attention is here called to the fact that the upper face of the anvil 21 is inclined downwardly toward the front of the machine, as indicated at 31, so that the impact plate or closure 20 will bear against the entire upper surface of the anvil and thus prevent uneven wear on the block or closure 20 when the machine is in operation. In order to remove the post the catch 28 is released and the handle 27 swung laterally to open the movable section 18 thus permitting the molded fence post, incased in the metallic jacket 19, to be readily carried to the drying racks until sufficiently hard for use. After the cement has thoroughly set the sleeve or jacket 29 may be removed from the post and again placed in position within the mold.

If desired the inner shell 29 may be formed with a plurality of transversely alined openings adapted to receive suitable rods or pins 30 thereby to form the post with slots or openings for the reception of the longitudinal wires in a line of fencing, as best shown in Fig. 5 of the drawings.

While the machine is shown and described with a hand crank for manually operating the same it is obvious that the shaft 11 may be provided with a belt pulley leading to an engine or other suitable source of supply for operating the machine. It will also be understood that the machine may be employed for making pipes, building blocks, hitching posts and the like by simply changing the configuration of the mold.

Having thus described the invention what is claimed is:

1. A molding machine including a supporting frame, a lever pivotally mounted on the frame, a mold secured to and carried by the lever, a shell disposed within the mold, and provided with transverse socket forming pins a hopper for feeding material to the mold, and means engaging the free end of the lever for actuating the latter to intermittently jar the contents of the mold.

2. A molding machine including a supporting frame, a lever pivotally mounted on the frame and having its intermediate portion off set, a sectional mold carried by

the lever and having one section thereof secured to the lever at the off set portion thereof, a shell disposed within the mold, uprights extending vertically from the supporting frame, a hopper supported by the uprights for feeding material to the mold, an anvil arranged beneath the mold and having its upper face inclined, an impact member carried by one of the mold sections and adapted to engage the inclined face of the anvil, brackets secured to the supporting frame, a shaft journaled in the brackets, and a cam carried by the shaft and adapted to intermittently lift the free end of the lever.

3. A molding machine including a supporting frame, a lever having one end thereof pivotally mounted on the frame and its intermediate portion off set to produce a seating recess, a mold secured to the lever at said recess and provided with an impact block forming a closure for one end of the mold, means for actuating the lever to intermittently jar the contents of the mold, and an anvil disposed beneath the mold and arranged in the path of movement of the impact block, said anvil and impact block having their adjacent faces inclined in opposite directions.

4. A molding machine including a supporting frame, a lever having one end thereof pivotally mounted on the frame and its intermediate portion off set to produce a seating recess, a mold seated in said recess, a hopper secured to the frame and provided with a discharge spout extending within the mold, and means for actuating the lever to intermittently jar the contents of the mold.

5. A molding machine including a supporting frame, a bracket secured to one end of the frame, a shaft journaled in said brackets and provided with a cam, a lever pivotally mounted on the opposite end of the frame and having its free end provided with an inclined faces arranged in the path of and adapted to engage the cam, a mold secured to the intermediate portion of the lever, a vertical frame secured to the supporting frame, a hopper secured to the vertical frame and provided with a discharge spout extending within the mold for feeding material to the upper end of the mold, and an anvil disposed beneath the lower end of said mold.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

HEZEKIAH DURR.

Witnesses:

HARMAN BRANNON,  
HARRY C. MENEFFEE.