May 18, 1926. 1,584,920

W. A. FLINT ET AL

MOLD FOR CONCRETE BLOCKS

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FIG. 1

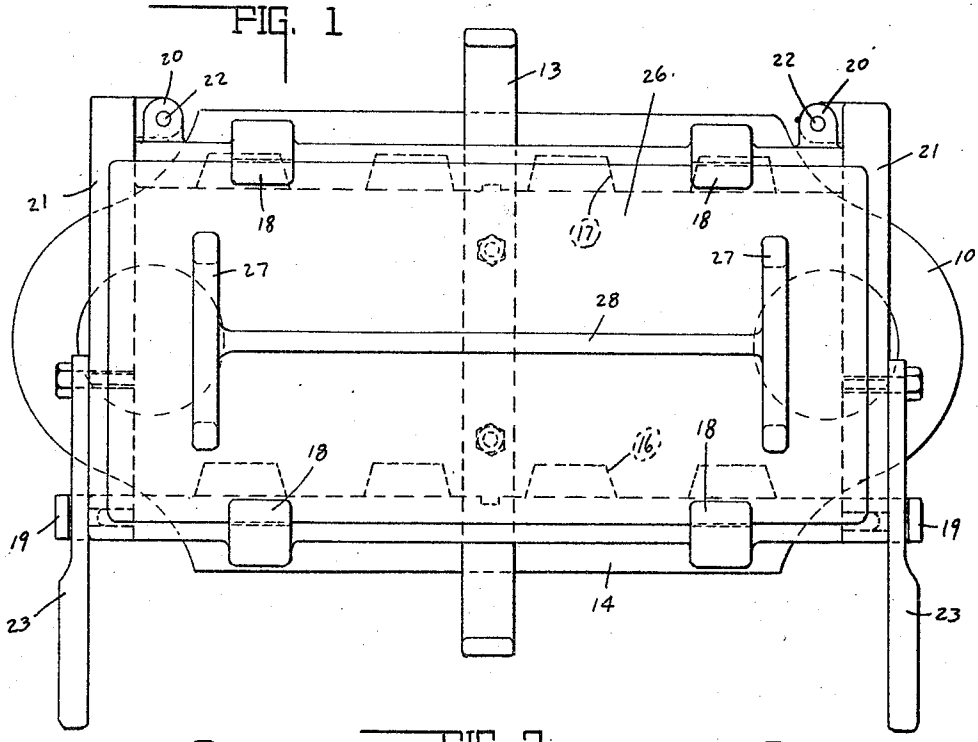
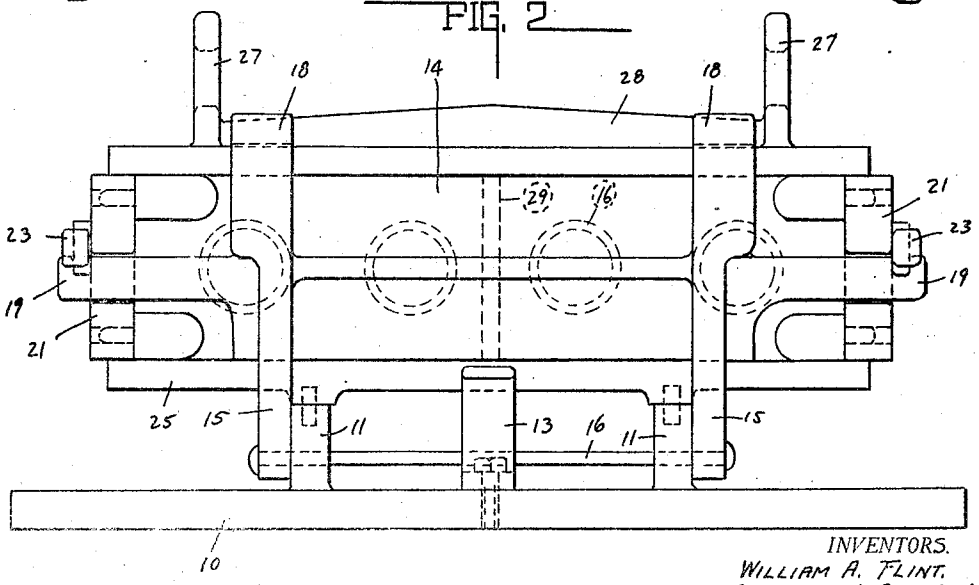



FIG. 2




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FIG. 3

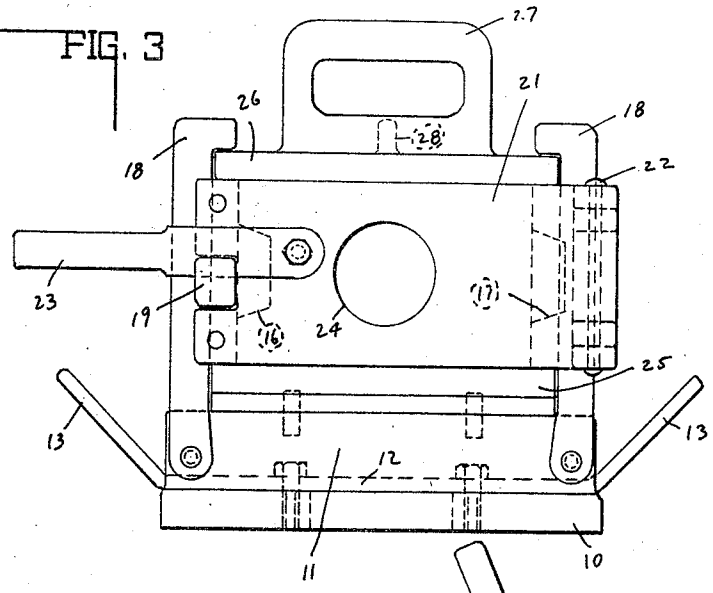
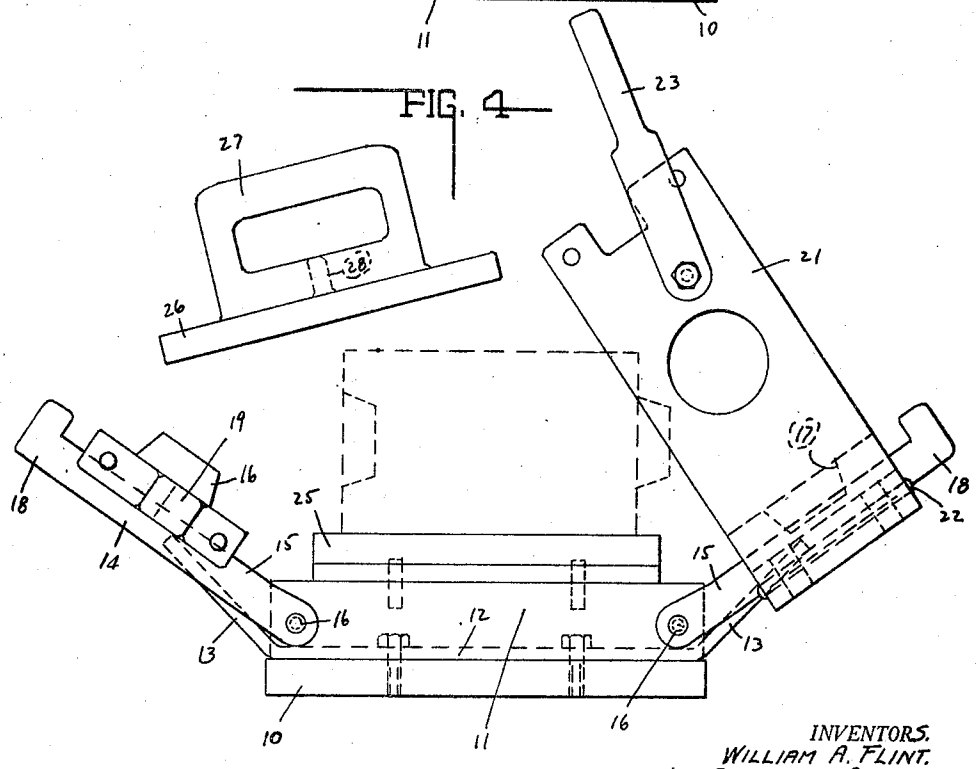



FIG. 4




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# UNITED STATES PATENT OFFICE.

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## MOLD FOR CONCRETE BLOCKS.

Application filed June 20, 1925. Serial No. 38,445.

This invention pertains to a collapsible form for molding concrete blocks or the like.

The principal object of the invention is to provide a form of this character which may be readily and easily handled, into which the plastic material is adapted to be compressed from the interior outwardly against the walls of the form by means of a collapsible pneumatic core.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims.

Fig. 1 is a plan view looking down on the form. Fig. 2 is a side elevation thereof. Fig. 3 is an end view thereof. Fig. 4 is the same as Fig. 3 showing the form in open position.

In the drawings there is shown a form having a base plate 10 provided with upwardly extending ribs 11, which ribs extend transversely across the base plate 10 and are spaced apart as shown in Fig. 2. Secured to the base plate intermediate of said rids there is a strap 12 having its ends extending outwardly at an angle from the base plate, to provide the stop arms 13 for receiving the side plates or walls of the form when in open position as shown in Fig. 4.

The side walls 14 are provided with the downwardly extending arms 15 adapted to embrace the ends of the ribs 11 and be pivotally connected thereto by the rods 16. This permits the side plates to swing to closed position as shown in Figs. 1, 2, and 3, and be moved to open position as shown in Fig. 4 so as to lie against the arms 13 for permitting removal of the block after having been formed therein. The sides 14 may be provided with any suitable variations in its surface such as shown by the dotted lines in Fig. 1 wherein there are projections 16 for forming recesses in the side surface of the block to be formed, and recesses 17 to provide corresponding projections in the wall of said block. Extending upwardly beyond the top edge of the side walls there are grooved locks 18. One of said walls is also provided with the outwardly extending keepers 19, extending beyond the ends thereof, while the other wall is provided with rearwardly extending ears 20, all of which are formed integral with the side walls.

The end walls 21 are hinged at one end between the ears 20 by the pins 22 so as to swing laterally therefrom as shown in Fig. 4 when in open position. The opposite ends of the end plates are provided with recesses to embrace the keepers 19. Pivotally mounted adjacent said recesses there are hand operated latch rods 23 adapted to engage in suitable slots in the keepers 19 as shown in Figs. 1, 2, and 3. Said end plates are provided with an opening or hole 24 for receiving a collapsible pneumatic core, not shown herein, which is fully illustrated and described in the co-pending application, Serial No. 39,730, filed June 28, 1925, said core being adapted to be inflated by compressed air for exerting an interior pressure against the material contained in the form and thereby forcing it and compressing it against the walls thereof.

A suitable pallet 25, usually made of wood, is loosely mounted on the ribs 11, said pallet being of such dimensions as to be embraced by the pivotally mounted side and end walls when in closed position, and support the material on the level with the lower edge of said walls.

The grooved locks 18 are adapted to receive a top wall 26 which is provided with suitable handles 27 connected by an integral strengthening rib 28. Said top wall 26 is adapted to slide endwise of the form when the walls are in closed position, and upon the upper edge thereof so that its lateral edges will be engaged and securely held against other than sliding movement by the grooves formed in the locks 18. By reason of this arrangement the top plate when slid in place, is firmly locked against displacement by pressure of the material, and its sliding movement is such as to keep the material from accumulating on the upper edge of the walls, as well as in the retaining slots provided in the locks 18.

The side walls may have their inner surface grooved vertically as shown by the doted lines in Fig. 2, and indicated at 29, to receive a partition plate in event it is desired to divide the block into two parts during the molding operation. Such partition plate is also provided with a hole 24

through which the collapsible core is adapted to extend. This permits of a 12 inch mold making two 6 inch blocks, or three 4 inch blocks, or an 8 inch mold making two 4 inch blocks, etc.

The invention claimed is:

1. A mold for concrete blocks or the like, comprising a base, a pair of side plates pivotally mounted on said base so as to extend upright therefrom in spaced parallel relation to each other when in closed position, and open outwardly away from each other when in open position, oppositely disposed end plates having one end thereof hingedly connected with one of said side plates, means for locking the other ends of said end plates to the other side plate, and a top plate rigidly secured over said side and end plates.

2. A mold for concrete blocks or the like, comprising a base, a pair of side plates pivotally mounted on said base so as to extend upright therefrom and spaced parallel with relation to each other when in closed position, and open outwardly away from each other when in open position, oppositely disposed end plates having one end thereof hingedly connected with one of said side plates, means for locking the other ends of said end plates to the other side plate, and outwardly extending arms secured to said base plate for receiving and supporting said side plates when in open position, and a top plate rigidly secured over said side and end plates.

3. A mold for concrete blocks or the like, comprising a base, a pair of side plates pivotally mounted on said base so as to extend upright therefrom and spaced parallel with relation to each other when in closed position, and open outwardly away from each other when in open position, oppositely disposed end plates having one end thereof hingedly connected with one of said side plates, means for locking the other ends of said end plates to the other side plate, a plurality of grooved locks extending upwardly from said side plates, and a top plate adapted to slide over the upper edge of said side plates in engagement with said grooved locks so as to engage and lock therein against outward movement.

4. A mold for concrete blocks or the like, comprising a base plate having a plurality of transversely extending ribs, a pair of side plates provided with downwardly extending arms pivotally connected to said ribs so as to permit said side plates to swing inwardly to closed position or outwardly to open position, rearwardly extending ears formed at the base at the end of one of said side plates and outwardly projecting keepers extending from the ends of the other side plates, and a pair of end plates having one end thereof pivotally mounted between said ears and the other end thereof adapted to engage and lock with said keepers for securing said end plates and side plates in closed position, the unlatching thereof permitting both end and side plates to swing to open position on their pivotal mountings.

5. A mold for concrete blocks or the like, comprising a base plate having a plurality of transversely extending ribs, a pair of side plates provided with downwardly extending arms pivotally connected to said ribs so as to permit said side plates to swing inwardly to closed position or outwardly to open position, rearwardly extending ears formed at the ends of one of said side plates and outwardly projecting keepers extending from the end of the other side plate, a pair of end plates having one end thereof pivotally mounted between said ears and the other end thereof adapted to engage and lock with said keepers for securing said end plates and side plates in closed position, the unlatching thereof permitting both end and side plates to swing to open position on their pivotal mountings, and a pair of outwardly extending arms secured to said base plate for supporting the side plates in their open or outwardly extending position.

6. A mold for concrete blocks or the like, comprising a base plate having a plurality of transversely extending ribs, a pair of side plates provided with downwardly extending arms pivotally connected to said ribs so as to permit said side plates to swing inwardly to closed position or outwardly to open position, rearwardly extending ears formed at the ends of one of said side plates and outwardly projecting keepers extending from the ends of the other side plate, a pair of end plates having one end thereof pivotally mounted between said ears and the other end thereof adapted to engage and lock with said keepers for securing said end plates and side plates in closed position, the unlatching thereof permitting both end and side plates to swing to open position on their pivotal mountings, and a top plate adapted to slide over the top edge of said side and end plates and be locked thereby against outward movement when the side and end plates are in closed position.

7. A mold for concrete blocks or the like, comprising a base plate having a plurality of transversely extending ribs, a pair of side plates provided with downwardly extending arms pivotally connected to said ribs so as to permit said side plates to swing inwardly to closed position or outwardly to open position, rearwardly extending ears formed at the ends of one of said side plates and outwardly projecting keepers extending from the ends of the other side plates, a pair of end plates having one end thereof pivotally mounted between said ears and the other end thereof adapted to engage and lock with said keepers for securing said end plates and

side plates in closed position, the unlatching thereof permitting both end and side plates to swing to open position on their pivotal mountings, a top plate adapted to slide over the top edge of said side and end plates and be locked thereby against outward movement when the side and end plates are in closed position, and a pair of outwardly extending arms secured to said base for sustaining said side plates when in outwardly extending or open position.

In witness whereof, we have hereunto affixed our signatures.

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CHARLES H. COCHRAN.