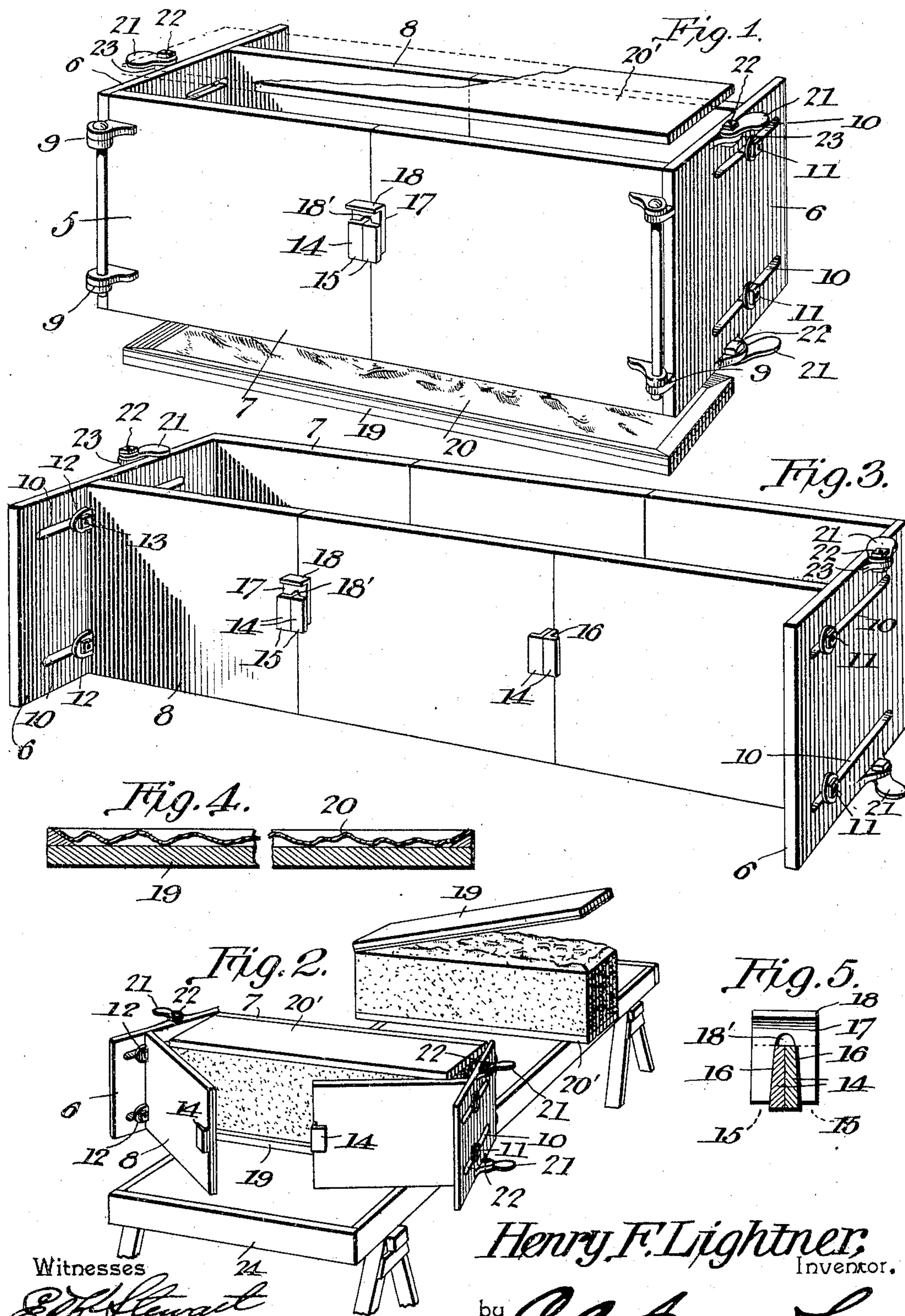


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H. F. LIGHTNER.
CEMENT BLOCK MOLD.
APPLICATION FILED JUNE 21, 1904.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY F. LIGHTNER, OF NEWCASTLE, PENNSYLVANIA.

CEMENT-BLOCK MOLD.

SPECIFICATION forming part of Letters Patent No. 788,481, dated April 25, 1905.

Application filed June 21, 1904. Serial No. 213,520.

To all whom it may concern:

Be it known that I, HENRY F. LIGHTNER, a citizen of the United States, residing at Newcastle, in the county of Lawrence and State of Pennsylvania, have invented a new and useful Cement-Block Mold, of which the following is a specification.

This invention relates to molds for making artificial-stone building-blocks, and has for its object the production of a simple, inexpensive, and durable device of this character by means of which building-blocks of different size and shape may be quickly and conveniently manufactured.

A further object of the invention is to provide a mold-box the side walls of which are formed of a plurality of detachable sections provided with interlocking means.

A further object is to provide means for adjusting one of the side walls of the box laterally with respect to the other and means for locking said wall in adjusted position.

A still further object is to provide a pattern-plate for forming the face of the block with a veneer or exterior finish in imitation of chiseled stone or other ornamental design.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of a mold-box constructed in accordance with my invention. Fig. 2 is a similar view showing the side walls released and the molded product in position to be removed. Fig. 3 is a perspective view showing the side walls of the box adjusted for forming large blocks. Fig. 4 is a sectional view of the pattern-plate detached; and Fig. 5 is a detail perspective view, partly in section, of the fastening device.

Similar numerals of reference indicate cor-

responding parts in all the figures of the drawings.

The mold-box 5, which may be formed of wood or other suitable material, is preferably formed of metal and comprises the end walls 6 and side walls 7 and 8. The end walls 6 are pivoted to the side walls 7, as indicated at 9, the former being provided with parallel spaced slots or openings 10 for the reception of bolts or similar fastening device 11, secured to the adjacent ends of the side wall 8. The opposite ends of the side wall 8 are provided with laterally-extending lugs 12, which bear against the end walls 6, and are provided with perforations 13, adapted to receive the bolts 11. By having the box formed in this manner the side wall 8 may be adjusted laterally with respect to the opposite wall 7, so as to form blocks of different widths, said movable wall being securely locked in adjusted position by tightening the clamping-nuts of the bolts 11. As a means for making blocks of different lengths I form the side walls of the box of a plurality of detachable sections, as best shown in Fig. 3 of the drawings, the abutting edges of each section being provided with locking-lugs 14, preferably formed integral with said sections, as shown.

The lugs 14 are provided with laterally-extending flanges 15 and inclined or beveled faces 16, adapted to receive a locking key or wedge 17, said key being provided with a suitable handle 18 and a wedge-shaped slot 18', adapted to receive the inclined faces 16 of the locking-lugs, so that when the key is driven home the lugs will be drawn together and securely lock the several sections in position.

Arranged within the mold-box is a detachable die or pattern-plate 19, the face of which is lined with a strip of galvanized iron or other suitable material 20, having the desired design stamped or otherwise impressed thereon. The die or pattern-plate 19 constitutes the bottom of the mold-box, the top thereof being formed by a removable pallet 20', which latter also serves as a rest or support for the block after the same is detached from the box. The pattern-plate and pallet are secured in position by means of locking-plates 21, pivoted, as in-

licated at 22, to laterally-projecting lugs 23, preferably formed integral with the end walls of the box, as shown.

In molding the blocks the side walls of the box are first adjusted to the desired length by inserting or removing one or more of the detachable sections, after which the keys or wedges 17 are driven home, thereby securely locking the several sections in alinement. The movable side wall 8 is then adjusted laterally, according to the width of block desired, and said wall locked in adjusted position by turning the clamping-nuts of the bolts 11. After the several parts have been thus assembled the box is placed on a table or other support 24 and the die or pattern-plate 19 arranged in the bottom of the box. The concrete, cement, or other suitable material of which the block is to be formed is then introduced into the mold-box and thoroughly tamped, after which presser-plate is placed in the top of the box and said plate and the die 19 locked in position by means of the locking-plates 21. When the cement or concrete has sufficiently set or solidified, the mold-box is reversed, with the pattern-plate resting on the table or support and the side wall 8 released by removing the key or wedge and swinging the end walls outwardly on their pivotal connection, as clearly shown in Fig. 2 of the drawings. The die or pattern-plate is then removed and the molded product left to dry until hard enough for use.

In making hollow building-blocks one or more cores may be placed in the mold-box, the formation of the blocks in other respects being the same.

From the foregoing description it is apparent that I have produced a device of comparatively simple construction which in practice will perform its functions to the attainment of the ends in view.

Having thus described the invention, what is claimed is—

1. A mold-box comprising a stationary side wall, end walls pivoted thereto, and a movable side wall adjustably secured to the end walls and formed of a plurality of detachable sections movable laterally to open position.
2. A mold-box comprising a stationary sectional side wall, end walls pivoted thereto, a movable side wall adjustably secured to the end walls and formed of a plurality of detachable sections movable laterally to open position, and means for locking the sections comprising the side walls in alinement with each other.

3. A mold-box comprising a stationary side wall, end walls provided with slots or openings pivoted thereto, a movable wall arranged

opposite the stationary wall, and fastening devices carried by the movable wall and engaging the slots in the end walls for locking said movable wall in adjusted position.

4. A mold-box having its side walls formed of a plurality of detachable sections, a pattern-plate forming the bottom of the box, end walls pivoted to one of the side walls, and means for locking the sections of each side wall in alinement with each other.

5. A mold-box comprising a stationary side wall, end walls pivoted thereto, a movable side wall adjustably secured to the end walls and formed of a plurality of detachable sections movable laterally to open position, lugs secured to the adjacent faces of the detachable sections, and locking-keys adapted to engage said lugs for locking the several sections in alinement with each other.

6. A mold-box having stationary and movable side walls each of which is formed of a plurality of detachable sections, tapering lugs provided with laterally-extending terminal flanges secured to the ends of said sections, and keys provided with wedge-shaped slots adapted to engage the lugs of adjacent sections for locking said sections in alinement with each other.

7. A mold-box comprising a stationary side wall, end walls pivoted thereto, a movable side wall slidably engaging the end walls, a removable pattern-plate forming the bottom of the box, a pallet, and means carried by the end walls for securing the pattern-plate and pallet in position.

8. A mold-box having its side walls formed of a plurality of detachable sections adapted to be swung laterally to open position, each section being provided with a terminal lug having an inclined or beveled face and a laterally-extending flange, and locking-keys engaging the inclined faces of adjacent lugs for locking the several sections in alinement with each other.

9. A mold-box comprising a stationary side wall, end walls provided with slots or openings pivoted thereto, a movable wall having its opposite ends provided with perforated lugs adapted to engage the end walls, and bolts passing through the slots in the end walls and engaging the perforations in said lugs for locking the movable wall in adjusted position.

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

HENRY F. LIGHTNER.

Witnesses:

T. BLAIR SHOEMAKER,
SAMUEL N ACKER.