

Plaster of Paris

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No. 767,829.

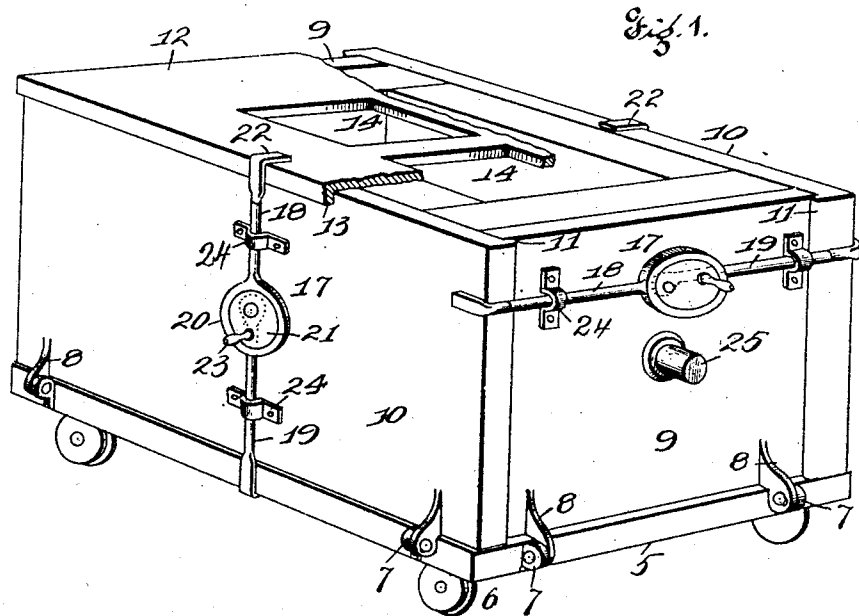
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J. M. OZEE.
MOLD.

PATENTED AUG. 16, 1904.

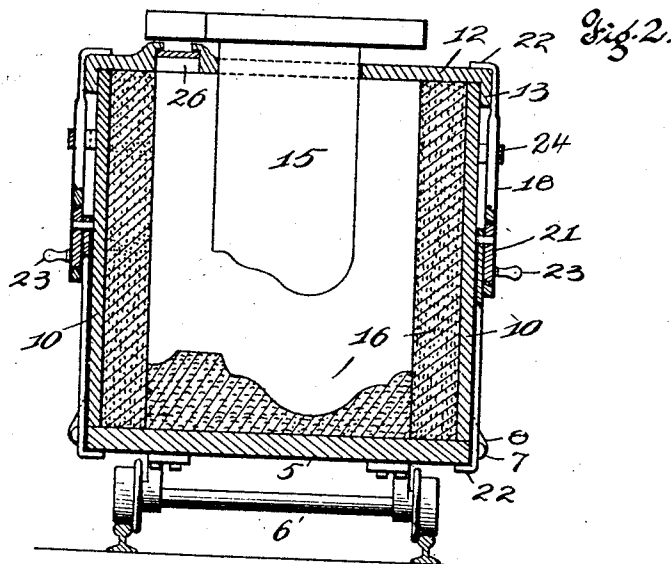
APPLICATION FILED JAN. 19, 1904.

NO MODEL.

2 SHEETS—SHEET 1.



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Witnesses
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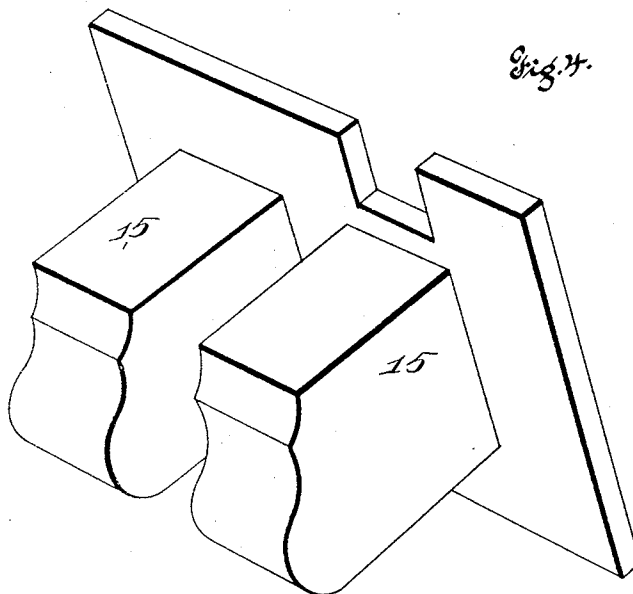
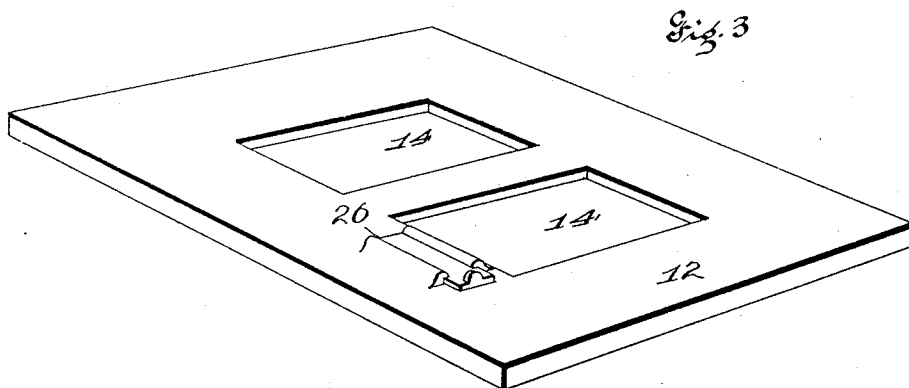
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2 SHEETS—SHEET 2.



Witnesses
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Lafferty, #735, 117, Aug. 4, 1903 (25-101)
McBrown, #176, 6508, Apr. 25, 1876 (25-35)
No. 767,829.
Cook, #656,392, Aug. 31, 1900 (25-129)

Patented August 16, 1904.

UNITED STATES PATENT OFFICE.

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JOSEPH M. OZEE, OF ST. LOUIS, MISSOURI.

MOLD.

SPECIFICATION forming part of Letters Patent No. 767,829, dated August 16, 1904.

Application filed January 19, 1904. Serial No. 189,769. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH M. OZEE, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Molds, of which the following is a specification, containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in molds; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

The object of this invention is to construct a mold having hinged sides and ends supporting a plaster-of-paris form in which terra-cotta, cement, or the like is cast under pressure.

In the drawings, Figure 1 is a perspective view of my invention with part of the cover broken away, showing the relation of the various parts. Fig. 2 is a vertical cross-sectional view showing the plunger in position when forming the terra-cotta or cement cast.

Fig. 3 is a detail perspective view of the cover, showing its construction. Fig. 4 is a perspective view of the plunger made use of in forming the cast within the mold.

In the construction of the device as shown I provide a base 5, preferably composed of metal and mounted upon a truck 6. The ends and sides of the base 5 are provided with ears 7, which act as one member of a hinge, to which is pivotally connected the other member 8 of the hinge formed on the ends 9 and sides 10. The ends of the sides 10 are provided with a continuous flange 11, arranged to fit over the edge of the ends 9, preventing said ends from becoming detached when the said ends and sides are folded together. A cover 12, provided with a flange 13, is placed upon the top of the sides and ends and supports the same. The cover 12 is provided with two elongated openings 14, through which the material to be cast is poured, which openings also act as a passage for the plunger 15, which is brought in contact with the material placed within the mold by a mechanical press of any convenient construction. Within the mold is placed the form 16, preferably composed

of plaster-of-paris and arranged in the shape desired, and in the receptacle formed by the walls and bottom of the plaster-of-paris form the material is shaped and allowed to harden, which is afterward removed and placed within the kiln for the burning process. To the sides and ends are pivotally connected a tightening device 17, composed of two members 18 and 19, the member 18 being provided on one end with a ring 20, fitting over a disk 21, and the member 19 being pivoted eccentrically to the disk 21, so that the members 18 and 19 are reciprocated to or from each other by the rotation of the disk 21 in the ring 20. Each free end of the members 18 and 19 is provided with a hook 22, which hooks are arranged to come in contact with the under portion of the mold and over the cover 12. The hooks 22 are screw-threaded upon the ends of the members 18 and 19, so that they may be turned out of engagement when desired to swing the sides and ends of the mold upon the hinges connecting the sides and ends of the base 5. The disk 21 is provided with a handle 23, by which the tightening device is operated, and by the manipulation of the same the disk will be rotated, drawing the portions together, and by opposite movement will release the same. The hooked ends 22 are preferably swiveled to the members 18 and 19, so that the same may be placed out of contact when desiring to remove the cover 12. The fastening device is preferably supported against the side and end of the mold by the brackets 24.

The ends 9 of the mold are provided with trunnions 25, over which the chains of a crane are adapted to be placed for hoisting the entire mold, inverting the same, removing the cover and delivering the cast without the destruction of the mold, which is the present practice.

The operation of my invention is as follows: The plaster-of-paris form 16 is placed in position upon the base of the mold. The ends and sides are folded together, and the cover 12 is placed upon the ends and sides. The fastening devices are then operated. The hooks of the fastening devices are brought into contact with the opposite ends of the mold and the same

tightened. The material is then poured into the receptacle formed by the plaster-of-paris form. The plunger 15 is then inserted through the opening 14 of the cover, pressure being applied thereon, packing the material within the mold, and the surplus allowed to escape through the opening 26 formed in the cover opposite to one of the openings 14. The plunger 15 is allowed to remain within the material sufficiently long for said material to "set" and retain its shape, the depression within the cast caused by the plunger retaining its shape, which is preferably designed for the purpose of making a cast which is durable, and yet of as little material as possible.

I claim—

1. A mold of the class described, comprising a base; sides and ends hingedly mounted upon the base; a cover resting upon the sides and ends; fastening devices carried by the sides and ends for holding the members in operative position; there being openings in the cover for the admission of plungers for compressing the material; and there being an opening in the cover through which the surplus material may escape; substantially as specified.

2. A mold of the class described, comprising a base mounted upon a truck, sides and ends hingedly mounted upon said base, a

flanged cover located upon the top of said sides and ends, fastening devices carried by the sides and ends for supporting the mold when placed in operative position, and openings formed in the cover for the admission of plungers for compressing the material to be cast, substantially as specified.

3. A mold of the class described, comprising a base; sides and ends hingedly mounted upon the base; a cover located on top of the sides and ends; there being openings through the cover for the admission of plungers for compressing the material to be cast; an opening for the escape of the surplus material; and fastening devices for holding the members of the mold in operative position; each of said fastening devices comprising the members 18 and 19 slidingly mounted; a ring 20 upon the end of the member 18; a disk 21 fitting in the ring 20 and pivoted eccentrically to the member 19; and hooks upon the ends of said members 18 and 19; substantially as specified.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

JOSEPH M. OZEE.

Witnesses:

ALFRED A. EICKS,
M. G. IRION.