F. J. PFIFFNER.

MOLDING MACHINE FOR CONCRETE BURIAL VAULTS.

APPLICATION FILED OCT. 27, 1913.

1,123,586. Patented Jan. 5, 1915.

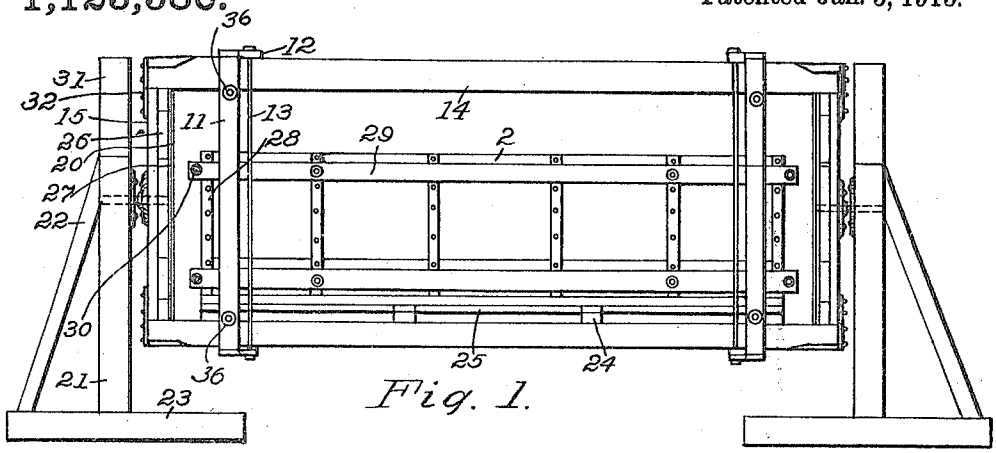


Fig. 1.

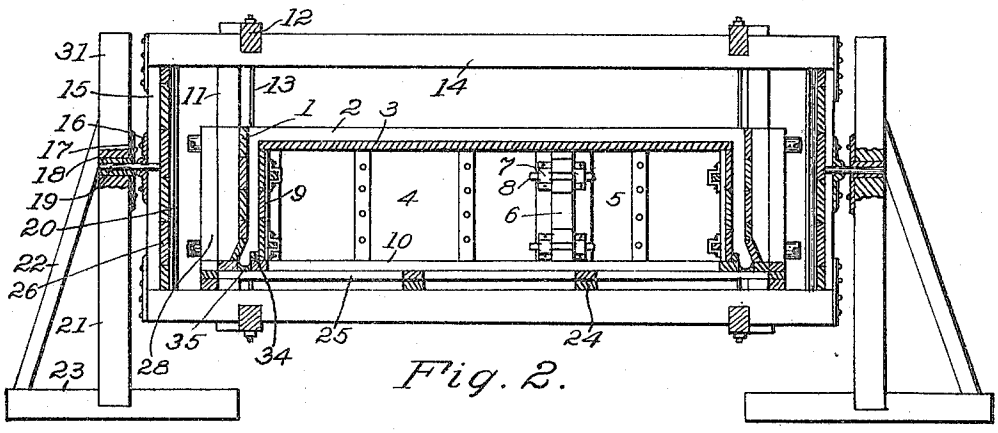


Fig. 2.

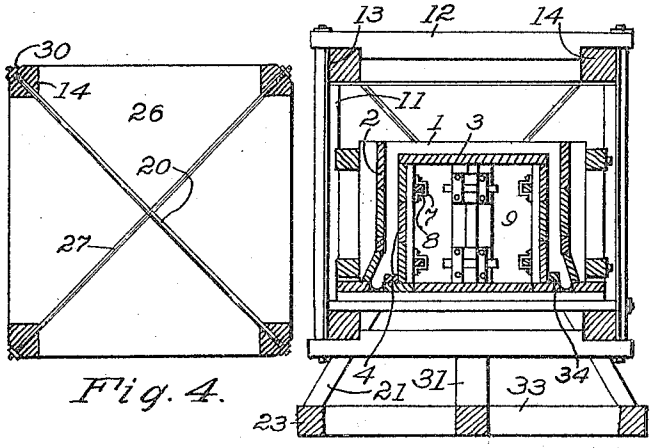


Fig. 4.

Fig. 3.

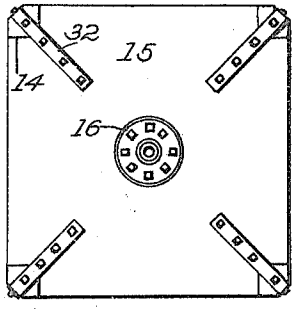


Fig. 5.

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UNITED STATES PATENT OFFICE.

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MOLDING-MACHINE FOR CONCRETE BURIAL-VAULTS.

1,123,586. Specification of Letters Patent. Patented Jan. 5, 1915.

Application filed October 27, 1913. Serial No. 797,579.

To all whom it may concern:

Be it known that I, FRANK J. PFIFFNER, a citizen of the United States of America, and a resident of Waterloo, Blackhawk county, Iowa, have invented certain new and useful Improvements in Molding-Machines for Concrete Burial-Vaults, of which the following is a specification.

My invention relates to improvements in molding machines for concrete burial vaults, and the object of my improvement is to furnish a mold formed by separable parts and detachably supported in an inclosing rack or frame, the latter being supported on trunnions pivotally so that it may be rocked vertically. This object I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of my improved molding machine for concrete burial vaults. Fig. 2 is another side elevation of said machine showing the mold-casing, its core, and the inclosing rack or frame with the bearings of the trunnions in longitudinal vertical section. Fig. 3 is a transverse vertical section of said machine. Fig. 4 is an elevation of the inner face of one of the solid ends of the inclosing rack or frame of said machine as sectioned away from the rest of the rack transversely. Fig. 5 is an outside end elevation of the part shown in said Fig. 4.

Similar numerals of reference denote corresponding parts throughout the several views.

It is my principal object to provide a molding-machine in which the open top concrete casket may be formed in an inverted position for convenience in the making, and so pivotally mounted in supporting structures as to be able to be rocked over or reversed in position for the purpose of removing said molded casket when desired. With this end in view, I provide upright posts 31 spaced apart horizontally and fixed on transverse beams 33 and connected longitudinal beams 23, said parts being further connected by braces 21. The uprights 31 are provided with horizontally-alined orifices in which are seated the bearing sleeves 18, having face plates 17 secured to the uprights. An open sided rack or frame has solid ends built up of two layers of planks 15 and 26 secured together in rectangular form, and whose corners are fixedly connected to the ends of the four longitudinal beams 14 by means of the cross-rods 20 and 27 secured by nuts 30. The ends of said beams 14 are further secured to the ends of said rack by means of the bars 32 fastened on the outer heads 15 by screws or bolts. The heads 15 are orificed in line with the bearings 18 to receive the trunnions or pivots 19, which are secured in the circular face plates 16 on said heads. The said rack or frame is therefore mounted so that it may be rocked vertically. The longitudinal beams 14 are connected by cross-beams 12 and the ends of the latter are detachably secured together by bolts 13.

The numeral 28 denotes an outer box, whose bottom 25 is supported on cross bars 24 on the lower pair of the longitudinal beams 14. This box is closed at the sides and bottom, but open at the top, and within it is placed a mold-casing 1, also closed at the sides 2 and bottom 10 and open at the top. Within the mold-casing 1 is placed a core made up of sectional parts 4 and 5 for the sides, and 9 for the ends thereof, which parts are detachably connected together by means of the sockets 7 and bars 8, detachably secured therein across vertical bars 6 on said parts. The sides and ends thus formed are spaced apart from the inner walls 1 and 2 of the outer wall-casing, and both the said mold-casing and floor may be supported on a rectangular pallet such as shown at 35, which pallet is channeled to provide a desired configuration to the upper edges of the burial vault or casket to be formed in said mold, and strips 34 adjacent and secured to the bottom 10 serve to form the rabbeted joint for the flange of the cover.

The numeral 3 denotes a movable cover or top for the said core, and which is spaced from the upper open edges of the sides and ends 1 and 2 of the outer mold-casing. The outer box 28 is held together by longitudinal bars 29 connected by cross-rods 30, while the bars 14 at the sides are further connected and supported by means of the vertical beams 11 connected by means of cross-bars 36. All of these parts are detachable from each other and can be easily assembled or disassembled. It is more convenient to form a hollow casket body upside down, and

therefore, the mold-casing and its inner core shown are supported in the tiltable rack in that position. The concrete casket is formed in the interspaces of the mold-casing and its core in a well known manner, by filling such spaces with the concrete, and leveling off at the top over the open upper end of the outer casing 1. When the concrete of the molded casket has properly set, the outer casing 28 and the casing 1 are taken away, then the casket is blocked or shored between the beams 14, the rack inverted, a support placed under the inverted casket, then the planks 24 and 25 as also the bottom 10 with the pallet 35 removed, and the detachable sections 4 of the core separated and withdrawn by removing certain of the bolts 8. The casket may then be lifted from the rack.

It is evident that various changes in the form, construction and details of this device may be made without really departing from the scope and essential principles of my invention.

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

1. A molding-machine for concrete burial-vaults comprising spaced relatively fixed supports, a separable rack pivoted to and between said supports, an outer mold-casing mounted removably in said rack, and a core detachably mounted in said casing in spaced relation to parts thereof.

2. A molding-machine for concrete burial-vaults, comprising spaced relatively fixed supports, a separable rack pivoted to and between said supports, an outer mold-casing mounted removably in said rack, and a core formed of detachably-connected sections detachably mounted in said casing in spaced relation to parts thereof.

Signed at Waterloo, Iowa, this 10th day of Oct., 1913.

FRANK J. PFIFFNER.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."