

P. V. KORNEFFEL & O. E. HIITT.

MOLD.

APPLICATION FILED APR. 26, 1911.

1,007,452.

Patented Oct. 31, 1911.

2 SHEETS-SHEET 1.

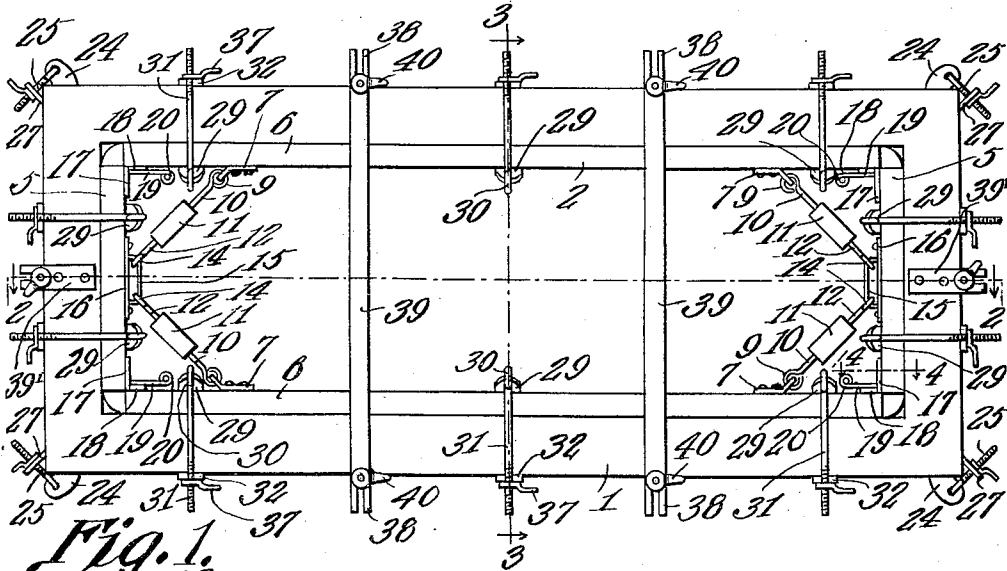


Fig. 1.

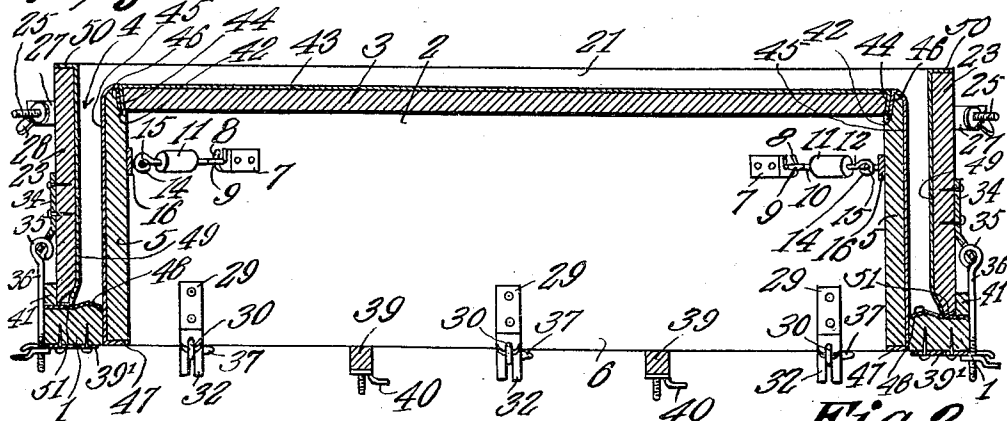


Fig. 2.

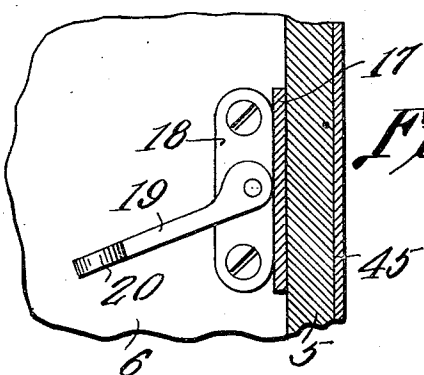


Fig. 4.

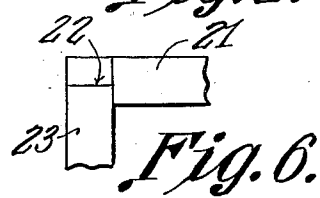


Fig. 6.

Witnesses

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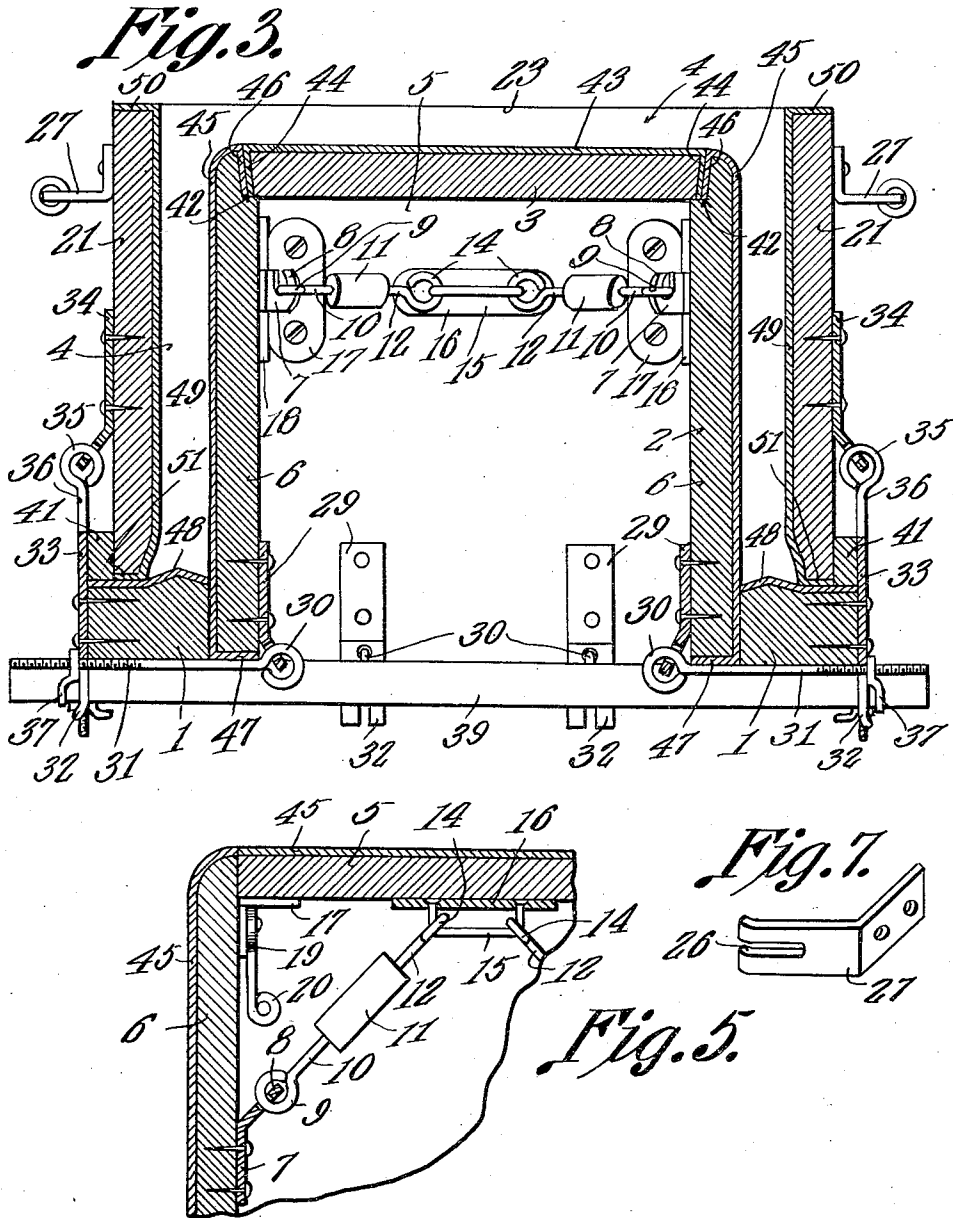
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UNITED STATES PATENT OFFICE.

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MOLD.

1,007,452.

Specification of Letters Patent.

Patented Oct. 31, 1911.

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To all whom it may concern:

Be it known that we, PAUL V. KORNEFFEL and OTTO E. HIITT, citizens of the United States, residing at Lewiston, in the county of Androscoggin, State of Maine, have invented a new and useful Mold, of which the following is a specification.

The device forming the subject matter of this application, is a mold, adapted to be employed primarily, although not exclusively, for the fashioning of the body portions of cases in which coffins are inclosed, the device being adapted, therefore, for the formation of "rough-boxes" of monolithic character.

The objects of the present invention are to provide a mold, comprising a plurality of distinct elements which may readily be separated, and taken down; to provide novel means for holding the said elements together, to form an operative structure; and to provide a durable mold of the character above referred to, the mold being adapted to turn out a finished product, requiring no final troweling nor dressing up.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings,—Figure 1 shows the invention in bottom plan; Fig. 2 is a vertical longitudinal section; Fig. 3 is a transverse section; Fig. 4 is a fragmental longitudinal section, upon an enlarged scale, the view depicting the cam elements whereby a cooperation between the walls of the core frame is secured; Fig. 5 is a fragmental horizontal, enlarged over the showing of Fig. 1, the view depicting the manner in which the side and end walls of the core frame are held together; Fig. 6 is a fragmental top plan, showing the manner in which the side and end walls of the shell frame interchange; and Fig. 7 is a detailed perspective of one of the brackets which are employed for holding together the side walls and the end walls of the shell frame.

The device will first be described gen-

erally, and broadly, and subsequently, a specific description of the several parts will be given.

The invention comprises a base frame 1, of relatively small height, within which fits a collapsible core frame 2, upstanding well above the base frame 1. The core frame 2 is open at its top and at its bottom, and into the top of the core frame 2, fits a lid 3. Resting upon the base frame 1, is a shell frame 4. The shell frame 4 surrounds the core frame 2, and extends a slight distance thereabove, in order to permit the fashioning of the bottom of the finished product, it being noted that the box which the device is adapted to form, is constructed bottom uppermost. The shell frame 4 is spaced apart from the core frame 2, so that the plastic material may be introduced between the core frame 2 and the shell frame 4, to form the sides of the box, as will be readily understood by those skilled in the art, particularly, when Fig. 3 of the drawings is examined.

The base frame.—The base frame 1 is simply a rectangular structure, the contour and size of which are determined by the contour and size of the box which is to be formed.

The core frame.—The core frame 2 comprises end walls 5 and side walls 6, the end walls fitting between the side walls. Adjacent their ends, the side walls 6 carry securing members 7, preferably taking the form of plates, provided with hooks 8, adapted to engage eyes 9 in the ends of rods 10, the rods 10 being threaded into sleeves 11, the sleeves receiving also, rods 12, terminally provided with eyes 14, the eyes 14 being engaged with elongated eyes 15, carried by plates 16, secured to the end walls 5. The construction above outlined, embodies a plurality of turn buckle structures, extended diagonally of the core frame 2, in the interior of the same, these turn buckle structures connecting the side walls 6 with the end walls 5. Mounted on the end walls 5, in the interior of the core frame 2, are thrust plates 17. Mounted upon the side walls 6, in close vicinity to the thrust plates 17, are bearing plates 18. The bearing plates 18, as clearly shown in Fig. 5, serve as abutments, against which the thrust plates 17 are adapted to bear, the plates 17 and 18

thus coöperating to limit the end walls 5 against inward tilting movement. The bearings 18 carry cam levers 19, adapted to bear against the thrust plates 17. These cam levers 19, at their free ends, are equipped with outstanding finger lugs 20, whereby the cam levers may be manipulated.

The shell frame.—The shell frame 4 comprises side walls 21 and end walls 23, the side walls 21 being shouldered as shown at 22 (see Fig. 6), to receive the ends of the end walls 23. Upon the outer faces of the side walls 21, adjacent the corners of the shell frame 4, outstanding ears 24 are secured, screws 25 being provided, the same having eyes, engaged with the ears 24, to permit a swinging of the screws 25 across the corners of the shell frame 4. To the end walls 23, the brackets 27 are attached, these brackets having slots 26, into which the screws 25 may be swung, there being wing nuts 28 upon the screws 25, adapted to be tightened against the brackets 27, to hold the side walls 21 and the end walls 23 together.

The assembling elements.—In order to hold the core frame 2 in proper relation with respect to the base frame 1 and to the shell frame 4, plates 29 are secured to the inner faces of the walls 5 and 6 of the core frame 2. In these plates 29 are pivoted eyes 30 formed in the ends of screws 31, the screws 31 extending outwardly, across the bottom of the base frame 1. Secured to the outer edges of the base frame 1, are slotted plates 32, into which the ends of the screws 31 are adapted to be swung, there being wing nuts 37 upon the screws 32, adapted to engage with the plates 32. The ends of the plates 32 upstand, as shown at 33, above the upper edges of the base frame 1, for a purpose to be described hereinafter. Secured to the outer faces of the walls 21 and 23 of the shell frame 4, are straps 34, in which are swiveled, eyes 35, formed at the ends of screws 36, the screws 36 being adapted to extend downwardly, below the base frame 1, to engage between fingers 38, formed in the ends of bars 39, extended entirely across the bottom of the base frame 1, as clearly appearing in Fig. 1. Upon the screws 36, there are wing nuts 40, bearing against the lower faces of the bars 39. Those screws 36 which are carried by the end walls 23, engage between the fingers of slotted plates 39' (see Fig. 1), on the frame 1.

Noting Fig. 3, and comparing the same with Fig. 2, it will be noted that bars 41 are inserted between the upstanding ends 33 of the plate 32, and the shell frame 4. Thus, relative movement between the shell frame 4 and the base frame 1 is prevented.

The linings.—As appearing most clearly in Fig. 3, the walls 6 and 5 of the core

frame 2, are shouldered, as at 42, to receive the edges of the lid 3, to prevent the lid 3 from moving downward within the core frame 2. The lid 3 is lined or covered with a metal plate 43, the edges of which are carried downwardly, as shown at 44, to inclose the edges of the lid. The outer faces of the walls 5 and 6 of the core frame 2, are covered with a lining 45, the upper edges of which are carried downwardly, along the inner faces of the walls 5 and 6, as shown at 46, to coöperate with the edges 44 of the lining 43. Thus, a tight joint will be effected, between the lid 3 and the side walls of the core frame 2, and wear, incident to the insertion and removal of the lid 3, will be reduced to a minimum. The lower edges of the linings 45 are carried inwardly, as shown at 47, across the lower edges of the walls 5 and 6 of the core frame 2. The upper face of the base frame 1 is supplied with a lining or cover 48. The inner faces of the walls 21 and 23 of the shell frame 4, are supplied with a lining 49, the upper edge of this lining being carried outwardly, as shown at 50, across the upper edges of the walls of the shell frame, while the lower edge of the lining 49 is carried outwardly, as shown at 51, beneath the lower edges of the walls of the shell frame 4, to engage with the lining 48 which is applied to the upper face of the base frame 1. The core frame 2, which fits within the base frame 1, is assembled by engaging the ends of the turn buckle structures with the hooks 8, the turn buckle structures being tightened up, and the cam levers 19 being adjusted, so as to bear properly against the thrust plates 17, the lid 3 being mounted in place in the core frame 2, as shown. The securing members 36, coöperating with the bars 40, serve to hold the shell frame 4 in place upon the base frame 1, and the securing members 31 serve to hold the core frame 2 assembled properly with the shell frame 4. The shell frame 4, in its turn, is held together by means of the elements 25, as will be readily understood.

From the foregoing, it is to be noted that the mold, taken as an entity, is a collapsible structure, which may readily be taken down and set up, as often as may be desired, the core frame 2 being readily removed from the interior of the molded article, and the shell frame 4 being readily removed from about the exterior of the molded article, without, in either instance, injuring the finished product.

As Fig. 3 will serve to show, the mold may be so fashioned as to produce the requisite cover-receiving grooves in the finished product, and to produce beads, and the like, which are commonly found upon structures which the mold herein disclosed, is adapted to produce.

Having described the invention, what is claimed is:—

1. A device of the class described comprising a base frame; a core frame fitting within the base frame; a shell frame surrounding the core frame and resting upon the base frame; plates secured to the outer edges of the base frame and upstanding above the base frame; securing elements pivoted to the core frame and extended across the lower edges of the base frame, to engage with said plates; and removable members disposed between the upstanding ends of the plates and the shell frame.
2. A device of the class described comprising primary and secondary walls; thrust plates applied to the inner faces of the primary walls; bearing plates applied to the inner faces of the secondary walls, and constituting abutments adapted to receive the thrust plates, to prevent inward movement of the primary walls; cam levers pivoted to the bearing plates, and adapted to engage with the thrust plates; and adjustable means engaging the primary and secondary walls, to hold the same together, against the adjusting action of the cam levers.
3. A device of the class described comprising primary and secondary walls; eyes carried by the primary walls; hooks carried by the secondary walls; turn buckle structures swiveled in the eyes, and adapted to

engage the hoops; thrust plates upon the primary walls; bearing plates upon the secondary walls, the bearing plates constituting abutments to receive the thrust plates, thereby preventing inward movement of the primary walls; cam levers fulcrumed upon the bearing plates and adapted to engage the thrust plates.

4. A device of the class described comprising a base frame; a core frame fitting within the base frame; a shell frame resting upon the base frame and spaced from the core frame; bars extended across the lower face of the base frame; securing devices pivoted to the outer face of the shell frame and adapted to engage, removably, with the ends of the bars; securing devices pivotally connected with the inner face of the core frame and adapted to extend across the lower edge of the base frame; and elements upon the outer edges of the base frame, in which the last named securing devices are adapted to engage removably.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

PAUL V. KORNEFFEL.
OTTO E. HIITT.

Witnesses:

EDGAR T. LAMBERT,
DAVID RIVARD.

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