Nov. 20, 1928. 1,692,447

J. L. JANISCH

MOLD FOR VAULTS AND THE LIKE

Filed June 16, 1927 3 Sheets-Sheet 1

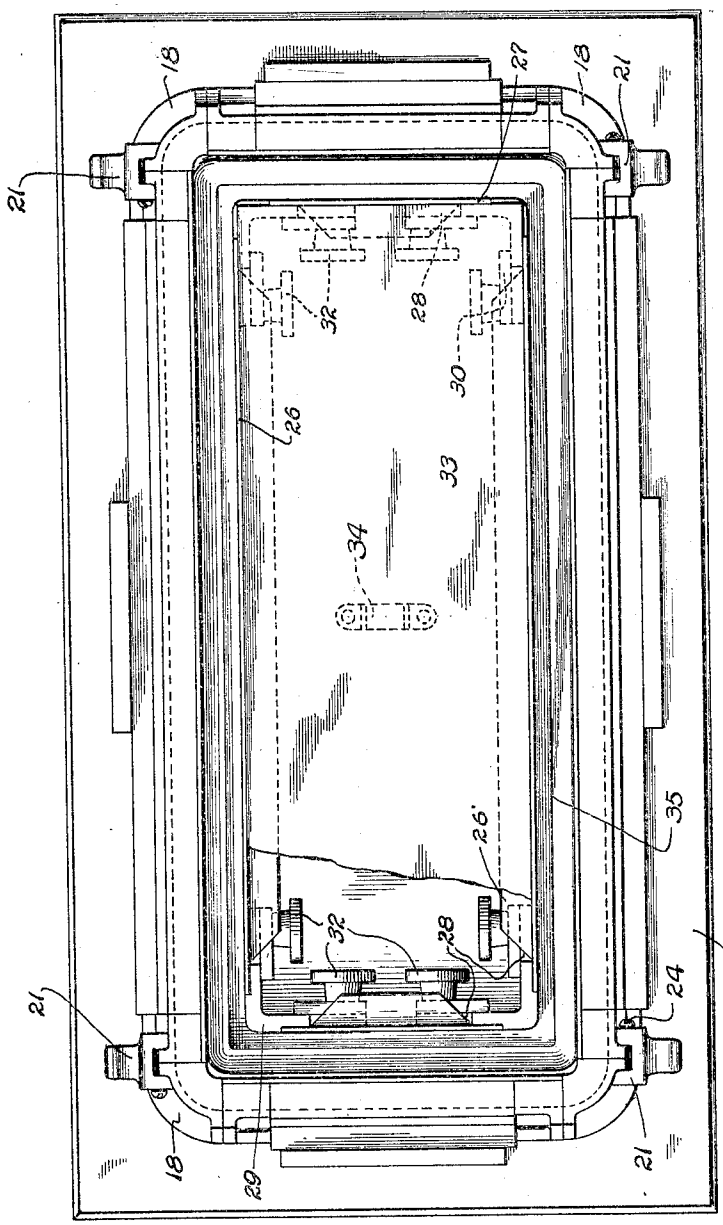


Fig. 1.

Witnesses
S. J. Collins.
F. L. Appleton

Inventor:
John L. Janisch
By Joshua R. H. Potts
his Attorney

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Filed June 16, 1927 3 Sheets-Sheet 2

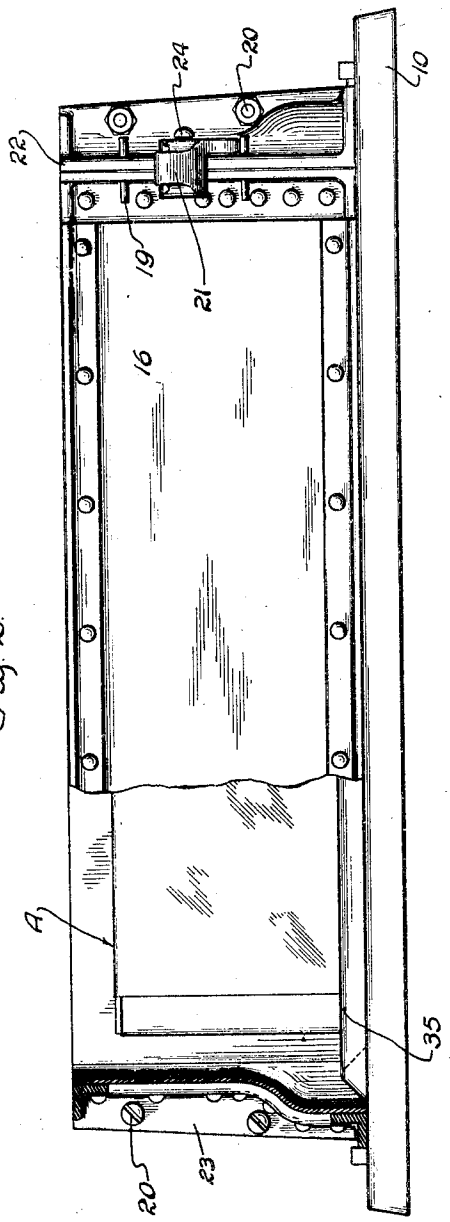


Fig. 2.

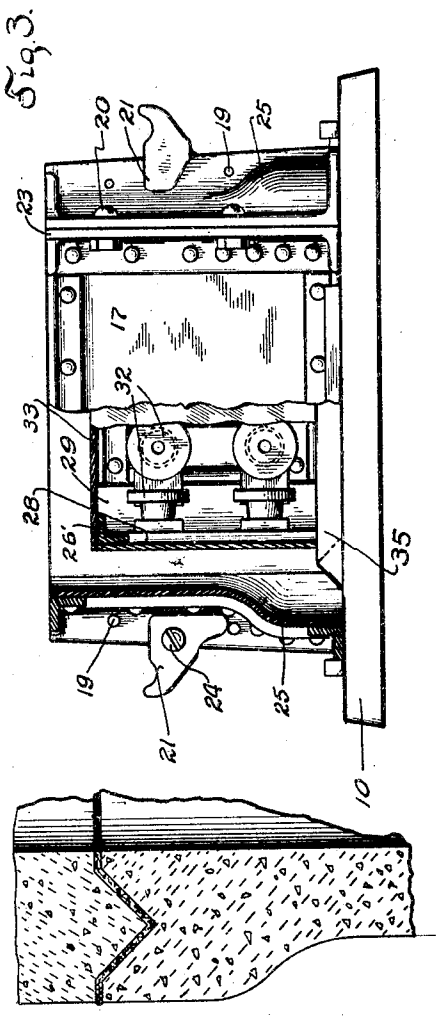


Fig. 3.

Fig. 10.

Witnesses
S. J. Collins
F. C. Appleton

Inventor:
John L. Janisch
By Joshua R. H. Potts
his Attorney.

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Fig. 4.

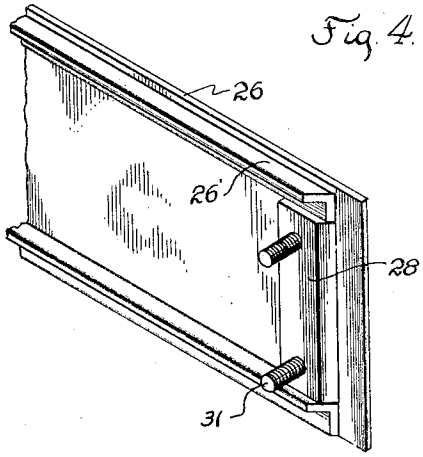
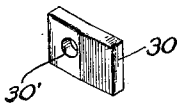


Fig. 6.



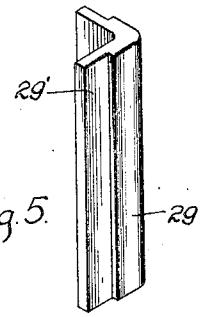


Fig. 5.

Fig. 7.



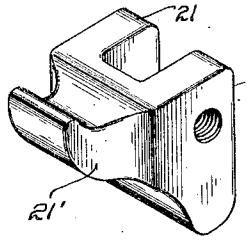


Fig. 8.

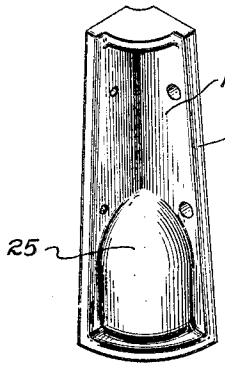


Fig. 9.

Witnesses
S. J. Collins.
F. C. Appleton

Inventor:
John L. Janisch.
By Joshua R. H. Potts
his Attorney

Patented Nov. 20, 1928. 1,692,447

UNITED STATES PATENT OFFICE.

JOHN L. JANISCH, OF CHICAGO, ILLINOIS.

MOLD FOR VAULTS AND THE LIKE.

Application filed June 16, 1927. Serial No. 199,278.

My invention relates to improvements in molds adapted for use in forming burial vaults, caskets and the like, and has for its principal object the providing of a novel mold of the character described which will be rugged in construction and convenient of use.

Another object of my invention is to provide a time and labor saving device for the construction of molds.

A further object of my invention is to provide novel means for manipulating and removing the molds from the completed vaults, etc.

These and other objects and advantages of construction, I attain by the mechanism illustrated in the accompanying drawing in which:—

Fig. 1 is a plan view of my device with a cover of the inner core partly broken away.

Fig. 2 is a side elevation thereof.

Fig. 3 is an end view, partly in cross section, with one of the walls broken away in part.

Fig. 4 is a perspective view of a section of a side wall of the collapsible inner core.

Fig. 5 is a perspective view of a corner member of the inner core.

Fig. 6 is a perspective view of a corner locking element of the inner core.

Fig. 7 is a perspective view of a thumb and adjusting nut.

Fig. 8 is an enlarged perspective view of a clamping and sustaining lug.

Fig. 9 is a perspective view of a detachable corner member of the outside casing.

Fig. 10 is a typical section of the V-shaped seal of a completed concrete vault and lid therefor.

Referring more particularly to the drawing in which similar characters of reference apply to like parts in the several figures, 10 is a base plate, on which side members 16 and end members 17 are removably placed to constitute with the corner sections 18 which are detachable from side and end members by means of tapered pins 19 and bolt and nuts 20,—the outer walls of the molding casing. The tapered pins are particularly adapted to pass through the flanges 22 and 23 and to register them in precise alignment.

The detachable corner sections are further secured to the side and end walls by means of novel lugs 21 having wings 21′ clamped to the coacting flanges 22 and 23, on the corner section members 18 of the side wall 16, respectively, by means of set screws 24. The corner sections 18 are also provided with a flare 25 which is adapted to conform to the configuration of the exterior part of the molding casing, and to provide strengthening means for the corner section itself.

A core member "A" having side walls 26 and end walls 27, provided with cleats 28, is adapted to fit into the space between the walls of the exterior mold. Removably connected to the side walls and end walls of said core are corner sections 29 having shouldered wings 29′ held securely to the side and end walls 26 and 27, respectively, by means of resilient curved locking elements 30, having the perforations 30′ to accommodate bolts 31, whereby the walls and corners of the inner core may be securely and adjustably clamped by the coaction of the locking elements 30 with bolts 31 and thumb nuts 32. Formed in the base plate 10 between the outer form and the inner core is a V-shaped rib 35 adapted to form a V-shaped groove in the corresponding part of a vault (not shown) formed in the mold.

A lid or top member 33 fitting snugly on the rim of the inner core is provided on its under side with a centrally positioned handle bracket 34 for the convenient manipulation of the same.

It will now be understood that the space between the outer forms and the inner core is filled with a suitable concrete mixture. After the mixture is set, the tapered pins 19, bolt and nuts 20, and the lugs 21 of the outer form are removed, whereupon the side and end walls and the corners may be removed. The form is then turned upside down and the base plate 20 removed, giving access to the interior of the core, the corner members 27 of which are readily removed therefrom after the clamping elements 29 and 32 have been loosened. The lid 33 can now be removed by the handle bracket 34, thus completing the operation.

It will be observed that the lug 21 serves

in a double capacity, viz, as a means slidably adjustable, on the flanges of the side walls and the corner sections, to lift and manipulate the mold by the usual ropes or cradle provided for that purpose; and also as a quickly detachable clamping element to bind the corner sections and the side walls into rigid engagement.

While I have shown the outer form as provided with conventional bolts and nuts and tapered pins in addition to the novel lifting and clamping lugs 21, in practice I have been able to expedite the putting together and the taking apart of the mold by using the lugs 21 alone, which serve both to clamp the members of the form together and as a means for attaching the ropes or cradle to lift and manipulate the form of the finished product.

In the inner core member, the elements 29, by reason of their curved surface, effect in co-operation with thumb nuts 32, a tensioning and locking stress against the cleats 28 and the wings 27′ of the corner sections 27 of the inner core, thereby maintaining these parts in rigid, interlocked engagement, and at the same time permitting of the expeditious taking apart of the core members when desired.

By the use of the method and the means herein outlined, I have been able to effect a substantial saving of the time and labor generally required in the construction and manipulation of the heavy vaults and caskets common to this art. Heretofore much time has been lost in the detaching of the side and end walls of both the outer form and the inner core, which, by my novel means of securing these members to the removable corners, is now greatly lessened.

I have described and illustrated a preferred embodiment of my invention, but it will, of course, be understood that the device is susceptible of modification without departing from the essential feature of, or sacrificing any of the advantages thereof. Hence, I do not limit myself to the precise details of construction as set forth, but desire to avail myself of such variations and modifications as fairly lie within the scope of the appended claims.

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

1. In a mold having removable corner, side and end walls, means detachably adjustable whereby said side and end walls may be both joined together and conveniently elevated and manipulated.

2. In a mold comprising side and end walls, a plurality of corner elements of a shape and size to conform to the configuration of said side and end walls, and fastening means applied solely to the exterior junction of said corner elements with the side and end walls, said fastening means providing instrumentalities for lifting said mold, whereby a mold is completed.

3. In a collapsible mold, side and end walls in combination with detachable corner sections of a shape and configuration to preserve a uniform continuity of outline of said mold, and means applied exteriorly to the junction of the corner sections with the side and end walls whereby the mold is both completed and provided with lifting and manipulating means.

4. In a mold having side and end walls, detachable corners of the same vertical height as the side and end walls, and means both joining the detachable corners, side and end walls together and providing lifting and manipulating means.

5. In a mold, in combination, a collapsible outer form, a collapsible inner core having removable corners, side and end walls, a plurality of resilient tensioning means whereby the corners, side and end walls are joined securely to form a completed inner core.

6. In a mold comprising an outer form and an inner collapsible core, cleats attached to removable side and end walls in said inner core, and resilient means whereby a plurality of detachable corners are bound securely to said side and end walls by tensioning elements applied to said cleats.

7. In a mold comprising an outer form and an inner collapsible core having removable corners, side and end walls provided with cleats, means on said cleats accommodating a plurality of tensioning elements and adjustable means to resiliently lock the side walls, end walls and corners of the inner collapsible core together by the coaction of the tensioning elements and the adjustable means.

8. In a mold having a collapsible outer form and a collapsible inner core and adapted to form vaults having V-shaped grooves to accommodate registering lids thereon, means whereby said collapsible outer form may be rigidly maintained in operative condition and both provided with lifting and manipulating means.

9. In a mold comprising an inner collapsible core and an outer collapsible form having detachable corners, side and end walls, external means including winged clamping and lifting lugs forming a part of said mold, whereby the corners, side and end walls of the outer form may be accurately aligned.

10. In a mold, an outer form comprising detachable corners, side and end walls, flanges on said corners, side and end walls and means on said flanges accommodating a plurality of elements including lifting lugs and tapered pins adapted to quickly align the flanges, thereby providing an accurate mold.

11. In a mold, in combination, an outer form having collapsible walls and corners, an inner collapsible core, means to form a V-shaped groove in a vault cast in said mold,

means to align the collapsible walls and corners of the outer form, and means both strengthening the outer form and providing lifting and manipulating means.

12. In a mold comprising an outer form and a collapsible inner core having detachable corners, side and end walls, means to join the corners, side and end walls firmly together, said means consisting of a plurality of resilient elements clampingly held by thumb adjusting nuts.

In testimony whereof I have signed my name to this specification.

JOHN L. JANISCH.