G. W. BROWN.

MOLD FOR MAKING SARCOPHAGI.

APPLICATION FILED OCT. 28, 1908.

943,860.

Patented Dec. 21, 1909.

3 SHEETS—SHEET 1.

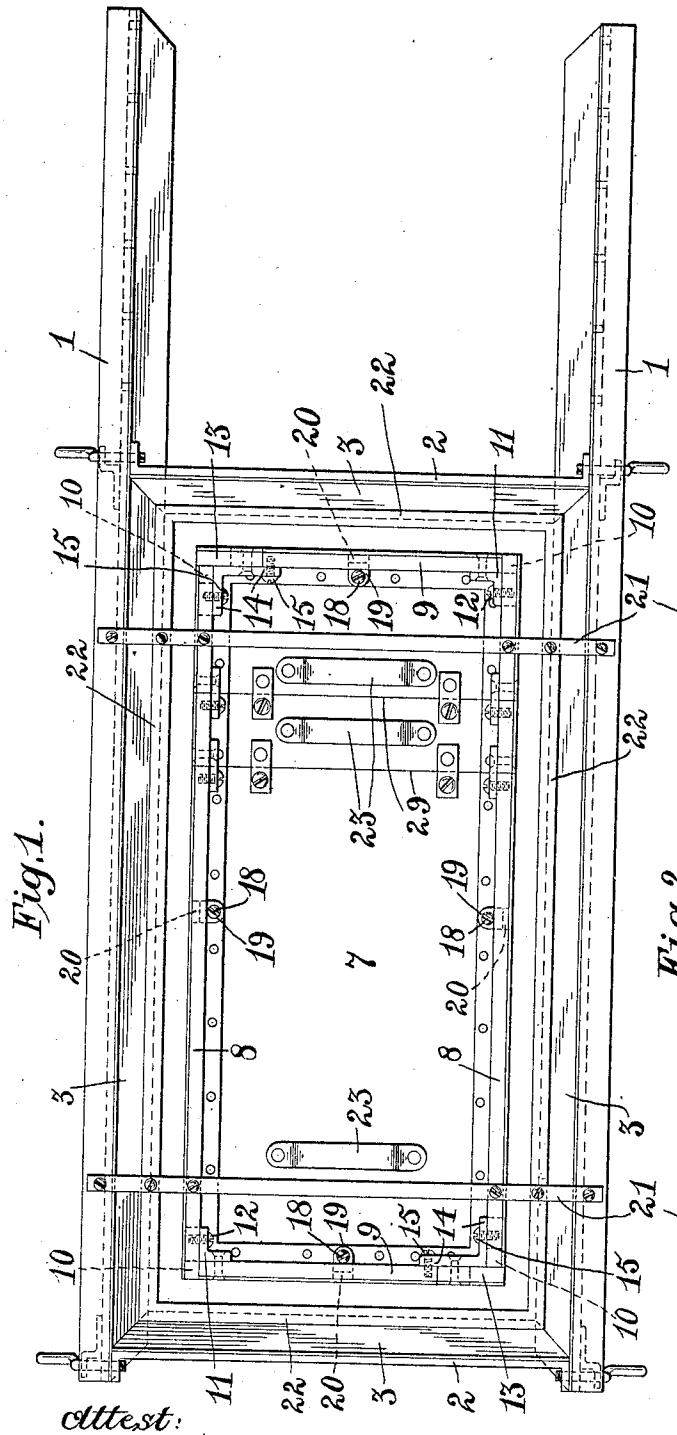


Fig. 1.

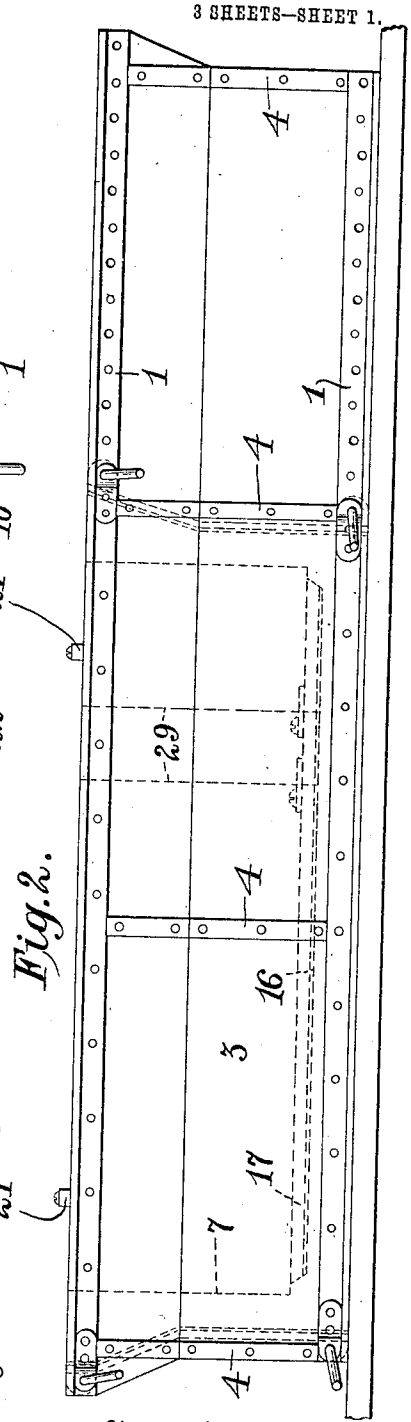


Fig. 2.

Attest:

Edwd L. Tolson.

Bent. M. Stahl.

Inventor:

George W. Brown.

by Spear, Middleton, Donaldson & Spear

Atty's.

ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

G. W. BROWN.

MOLD FOR MAKING SARCOPHAGI.

APPLICATION FILED OCT. 28, 1908.

943,860.

Patented Dec. 21, 1909.

3 SHEETS—SHEET 2.

Fig. 4.

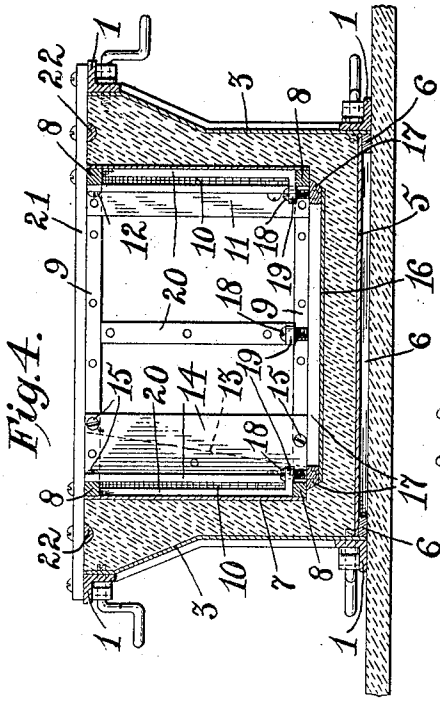


Fig. 5.

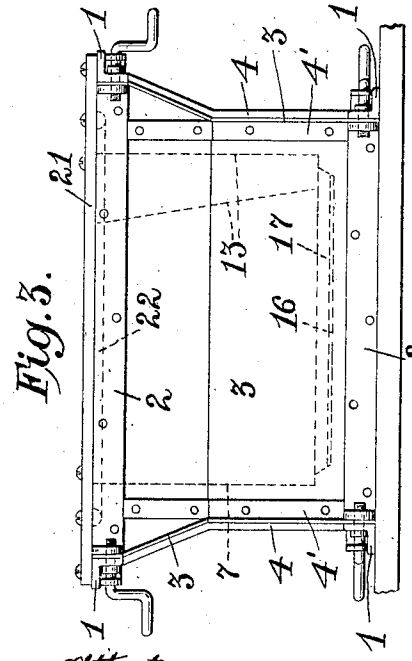
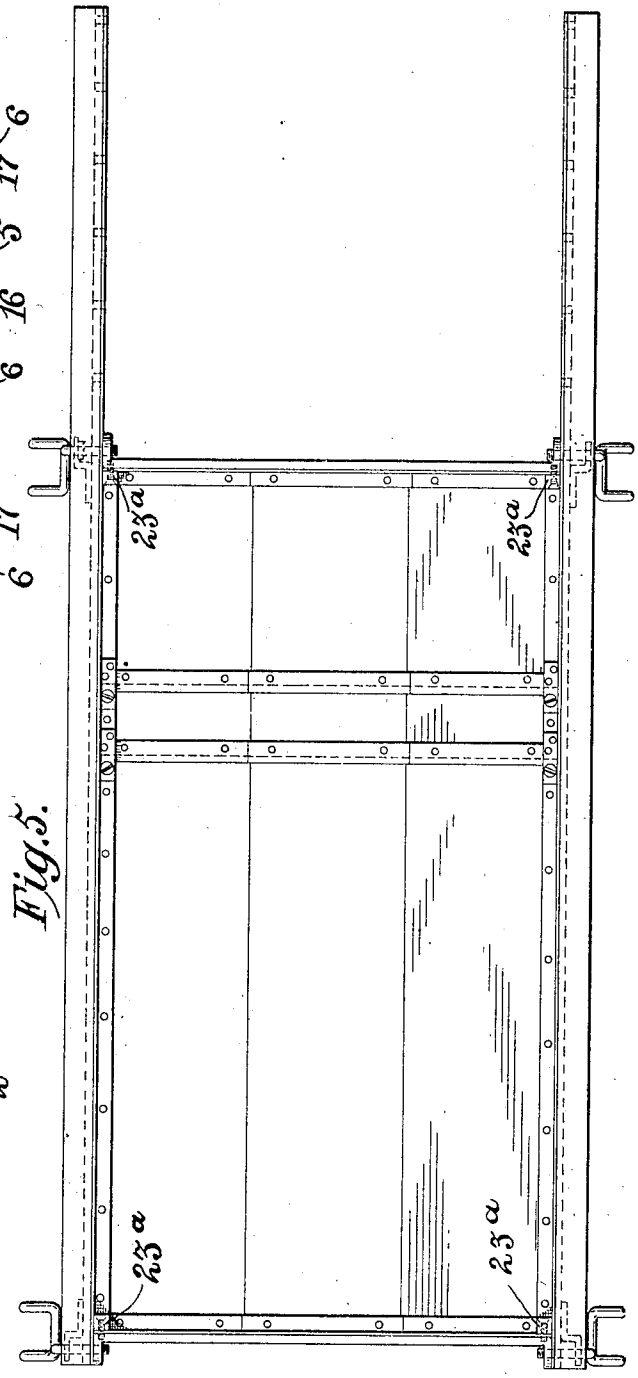


Fig. 3.



Attest:

Edwd. L. Tolson.

Bert Van Stahl.

Inventor:

George W. Brown,

by Spear, Middleton, Donaldson & Spear

Attys.

ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

G. W. BROWN.

MOLD FOR MAKING SARCOPHAGI.

APPLICATION FILED OCT. 28, 1908.

943,860.

Patented Dec. 21, 1909.

3 SHEETS—SHEET 3.

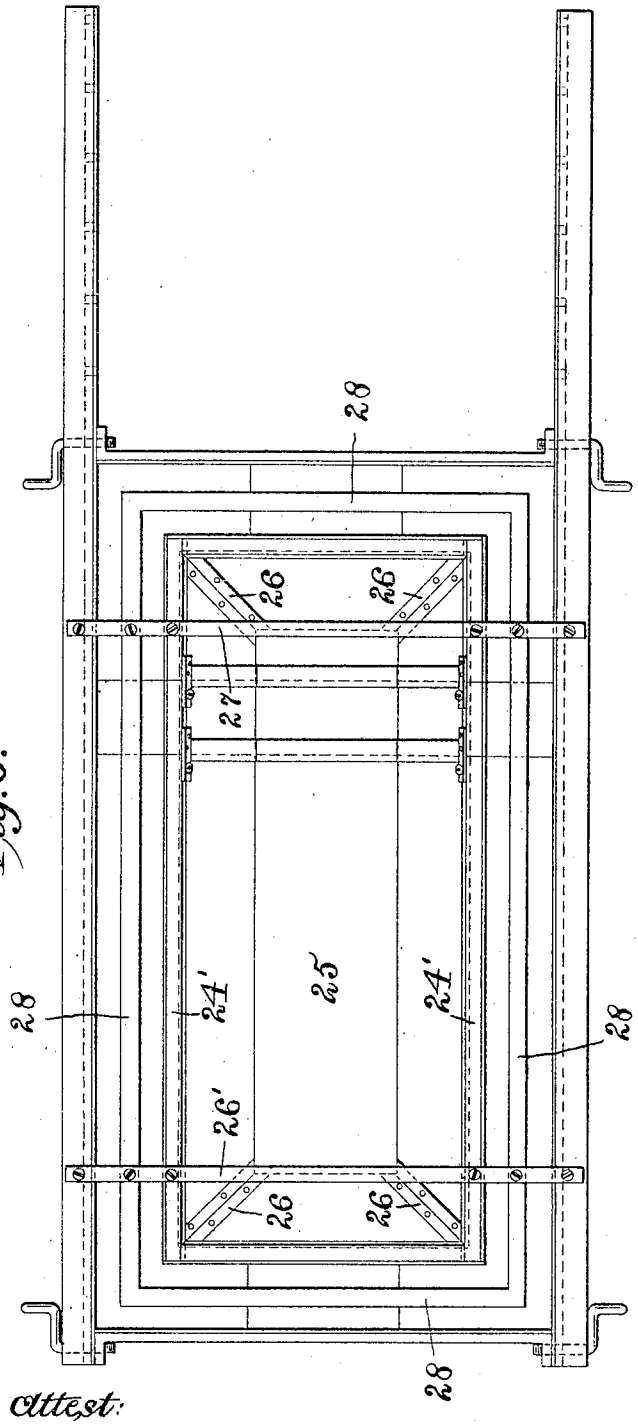


Fig. 6.

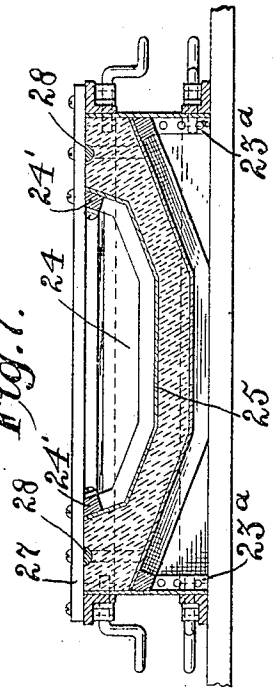


Fig. 7.

Attest:

Edwd K. Tolson.

Bent. M. Stahl.

Inventor:

George W. Brown,

by Spear Middleton, Donaldson & Spear

Atty's.

ANDREW B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE W. BROWN, OF MADISON, OHIO.

MOLD FOR MAKING SARCOPHAGI.

943,860. Specification of Letters Patent. Patented Dec. 21, 1909.

Application filed October 28, 1908. Serial No. 459,916.

To all whom it may concern:

Be it known that I, GEORGE W. BROWN, citizen of the United States, residing at Madison, Lake county, Ohio, have invented certain new and useful Improvements in Molds for Making Sarcophagi and the Like, of which the following is a specification.

My invention relates to molds for making sarcophagi or the like of composition or cement, and my object is to provide a mold of simple and inexpensive construction, and one which is capable of adjustment for different sizes of articles to be molded, and one which will be easy to manipulate in assembling the parts, or in removing them for the removal of the vault when molded.

The invention consists in the features and combination and arrangement of parts hereinafter described and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a plan view of the main part of the mold; Fig. 2 is a side view of the same; Fig. 3 an end view; Fig. 4 a cross sectional view; Fig. 5 is a bottom view of the main part of the cover mold; Fig. 6 is a view of the cover mold with the removable portion in place, and Fig. 7 is a cross sectional view through the cover mold.

In carrying out my invention I employ a frame made up of angle-iron and strap-iron pieces and sheet metal sides secured thereto.

1 indicates upper and lower angle irons extending longitudinally on each side of the main mold, these upper and lower angle irons being connected in pairs by end cross pieces 2 of strap iron, each cross bar having its ends turned at right angles to fit within the angle irons and being secured thereto as will be hereinafter described.

The sides and ends of the mold frame are made up of sheet iron riveted to the angle iron and to the cross bars at the ends of the main mold. This sheet iron is indicated at 3. At the ends of the sides the sheet iron is reinforced by metal strips 4. The sheet metal sides extend vertically to a point slightly above the middle of the height of the main mold, and thence flared outwardly. The same is true of the sheet metal ends which are attached to the cross bars 2. These sheet metal ends are also reinforced by metal strips 4'. The bottom of the main mold is formed by a sheet of metal 5 secured or riveted to metal bars 6. The sheet metal is secured to the inner faces of the angle iron bars and cross bars, and the sides and ends, together with the bottom sheet metal provide a smooth interior to the main mold to receive the cement or other material of which the vault is to be formed. Suspended within this main mold is a core 7, which is made up of upper and lower longitudinal bars 8 and cross bars 9, these bars having sheet metal sides and end plates secured thereto on their outer sides to present a smooth exterior to the core for forming the smooth inner face of the vault when formed. The end walls of the core at their point of junction with the side wall, have vertically extending bars 10 and they also have angle iron pieces 11 riveted to cross bars of the ends and removably attached by screws 12 to the side bars of the core frame. These vertically extending angle bars are located at diametrically opposite corners of the core frame, and at the two other corners of the core frame I provide removable keys consisting of wedge shape pieces 13 tapered downwardly and forming continuations of the cross bars of the core ends, these wedge pieces overlying the ends of the side frame of the core, which side frames have also vertical bars at their ends. The key pieces are provided with flanges 14 fitting within the end walls and within the side wall, and secured in place by the screws 15. These flanges lap upon the end and side walls and serve for attachment of the key pieces thereto.

The bottom of the central core is formed of a sheet metal piece 16 riveted to a frame 17, which frame is composed of bars beveled on their outer sides from their upper edges inwardly. These frame bars are detachably secured to the bottom bars of the sides and ends of the core frame by means of screws 18, said screws passing through ears or clips 19 into the frame bars 17, of the bottom. The ears or clips 19 are provided by inwardly turned ends of vertically reinforcing pieces 20 on the inner side of the core frame and riveted to the sheet metal side walls thereof.

The core frame is suspended in the main mold or frame by cross bars 21, screwed to the core frame and to the angle irons of the main mold or frame. These cross bars also

furnish support for a strip 22, which extends all around the open space between the core and the outer wall of the main mold and about midway of said space, so as to form a groove in the top edge of the molded article to receive a sealing medium for sealing the cover in place, as will be hereinafter more fully described. These suspending bars serve not only to support the inner core but to center it in relation to the main part of the mold and the groove forming strip is secured on the under side of these suspending cross bars.

The inner core having been assembled in proper position it will be suspended with a space between its bottom and the bottom of the outer box or mold and with a space between its outer side and the side of the main box, and in this space the cement will be poured and molded. After the cement has set the core is removed and for this purpose the wedge shaped corner keys are first drawn upwardly from the corners of the core to give clearance at these points, and then the end walls of the core are detached from the side walls by loosening the screws 12 so that the said end walls may be moved away from the end walls of the molded article. Before this is done however, the bottom plate is detached from the end and side walls of the core by loosening the screws 18. After the keys, end walls and side walls have been removed the bottom plate may be readily removed by grasping the handles 23 and lifting the bottom out of the molded article. This may be readily done because the bottom is provided with the beveled edges above referred to and no obstruction will be offered to its ready removal.

The mold for making the cover is also made up of longitudinally extending side bars and end cross bars having ears thereon to connect with the side bars, both the sides and the ends being connected by sheet metal pieces riveted to the angle iron bars and cross bars respectively. The bottom of the main cover mold is of angular form in cross section, and it consists of sheet metal reinforced by metal strips around its edges, it being held in place by the frame strips simply resting upon corner posts or blocks 23^a at the corners of the sides and ends said posts being riveted to the ends. The other section of the cover mold shown at 24 in Fig. 7 is also composed of longitudinal frame bars 24′ to which is secured a sheet metal plate 25. This sheet metal plate is bent to conform to the arched shape of the cover and is suitably reinforced at its corners by pieces 26. This core frame for the cover is suspended in the main portion of the cover mold by suspending cross bars 26′ and 27 and these are secured to the side bars of the main part of the cover mold by means of screws. These cross bars also carry strips 28 for molding a groove in the edge of the cover. The molding of the cover is carried out in substantially the same manner as the molding of the main portion of the vault excepting that the core portion is not collapsible. This core portion tapers from its inner and outer sides at both its sides and ends and is therefore readily removable from the cover without necessitating its removal in sections or the detachment of its bottom portion.

The strips for molding the grooves in the edges of the main part of the vault and the cover portion are of importance, as these vaults may be sealed by providing openings in the cover leading to these grooves which register with each other when the cover is placed so that cement or suitable sealing material may be poured in through the openings to fill the grooves and cement the cover in place upon the main part of the molds. The inner core of the main part of the mold is formed in sections divided from each other at the points 29, and these sections are secured together by lugs on one section lapping upon the other section and held thereto by a set screw. By reason of this construction the inner core can be lengthened or shortened by adding or subtracting the sections. In this way the core can be made to suit different lengths of vaults and for the same purpose the outer mold can be lengthened or shortened by moving one end wall longitudinally in respect to the side walls to occupy different positions between these side walls. The side walls extend continuously from end to end and it is only necessary to adjust the end wall between them.

For the purpose of holding the end walls to the side walls I provide bolts or screws passing through the angle iron side bars and into the ears or turned ends of the cross bars forming a part of the end frames. Each of the angle iron side bars may be provided with a series of holes so that the end wall may be set in different positions in respect thereto. The same construction may be provided for the main portion of the cover mold and the main plate of this cover mold may be formed in sections to be added to or subtracted from to increase or diminish the length of the cover mold. The main box or mold may be used either with or without a bottom. In the latter case the mold would be placed upon a suitable platform such as concrete or other material prepared to receive it.

Both the main part and the core portion of the cover mold may be made in sections so far as the sheet metal portion thereof is concerned, and so far as the main frame of the cover mold is concerned the end wall may be adjustable in between the continu-

ous side walls in a manner similar to that above described, in connection with the main mold.

I claim as my invention:—

In combination an outer mold box, a core comprising upper and lower side bars 8 and cross bars 9 with sheet metal sides and ends attached thereto respectively, reinforcing strips 20 secured to the inner faces of the sheet metal sides and ends, and having inwardly turned ears 19 at their lower ends, a bottom consisting of bars 17 having beveled outer edges inclining downwardly and inwardly, and having their upper outer edges set in some distance from the outer edges of the bars 8, and screw 18 passing through the ears 19 for drawing the bottom bars 17 against the lower faces of said bars 8, substantially as described.

In testimony whereof, I affix my signature in presence of two witnesses.

GEORGE W. BROWN.

Witnesses:

E. N. SARTON,

GEORGE W. E. SLATER.