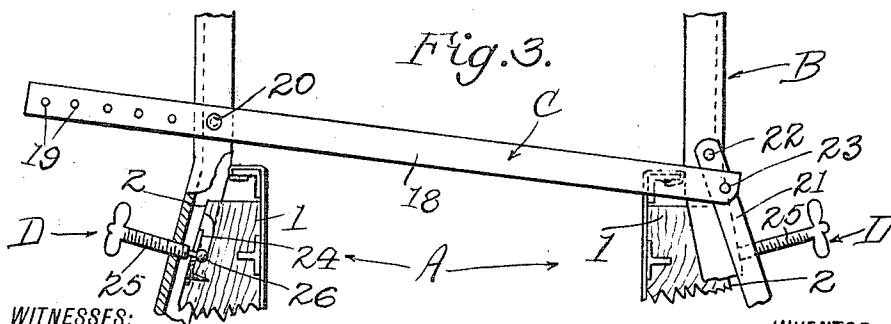
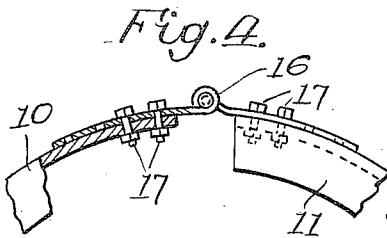
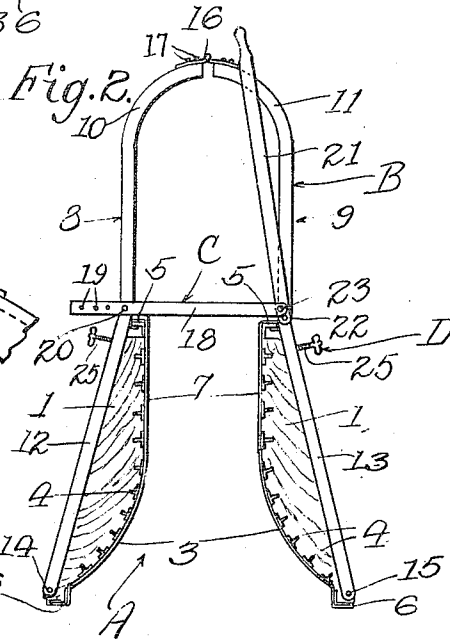
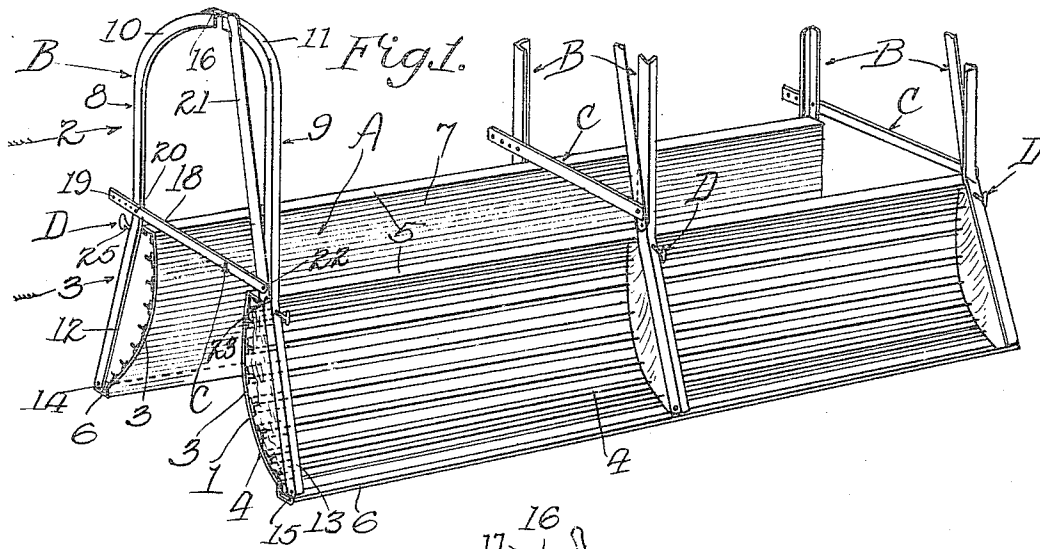


H. C. BABEL.
 APPARATUS FOR THE CONSTRUCTION OF PLASTIC WALLS.
 APPLICATION FILED FEB. 15, 1910.

964,604.

Patented July 19, 1910.



WITNESSES:

INVENTOR

W. Williams
W. M. Daskam

Harry Clay Babel

UNITED STATES PATENT OFFICE.

HENRY CLAY BABEL, OF BUFFALO, NEW YORK.

APPARATUS FOR THE CONSTRUCTION OF PLASTIC WALLS.

964,604.

Specification of Letters Patent.

Patented July 19, 1910.

Original application filed November 1, 1909, Serial No. 525,805. Divided and this application filed February 15, 1910. Serial No. 544,026.

To all whom it may concern:

Be it known that I, HENRY CLAY BABEL, a citizen of the United States, residing at Buffalo, New York, have invented an Improvement in Apparatus for the Construction of Plastic Walls, of which the following is a specification.

My object is to construct a mold for casting concrete walls, the casting faces of the mold being flaring at the bottom as required in forming the foundation of a wall, and the mold having mechanism connecting the two casting faces so that the mold may be adjustable for walls of different thicknesses; and my invention consists of the novel features herein shown, described and claimed.

This application is a division of my application for apparatus for the construction of plastic walls filed November 1, 1909, Serial No. 525,805, and shows a modification of the construction shown, described and claimed in that application.

In the drawings: Figure 1 is a perspective of a concrete mold embodying the principles of my invention. Fig. 2 is an end elevation of the device shown at Fig. 1. Fig. 3 is an enlarged fragmental detail of the adjustable clamping connection between the two sides. Fig. 4 is an enlarged detail of one of the arch hinges.

A concrete mold embodying the principles of my invention may include: A, two flaring casting walls. B, a plurality of hinged arches pivotally connected to the lower sides of the casting walls and extending upwardly outside of the casting walls. C, a plurality of adjustable link and lever connections between the arches above the casting walls. D, adjustable connections between the upper sides of the casting walls and the arches.

The details of the casting walls A are as follows: The vertical ribs 1 are preferably of wood and have straight outer faces 2 and curved inner faces 3. The intermediate longitudinal ribs 4 are preferably of T-iron and are secured to the curved inner faces of the vertical ribs 1, said T-irons being recessed into the faces 3. The upper and lower ribs 5 and 6 are heavier angle irons than the intermediate T-irons, and fit upon the corners of the ribs 1. The sheet metal facing 7 is secured against the ribs 4, and to the ribs 5 and 6; the upper edges of the facings being turned over the ribs 5 and the

lower edges of the facings being turned under the ribs 6. The ribs 6 are set with their flanges vertical and horizontal so as to make the extreme lower faces of the wall vertical.

The details of the hinged arches B are as follows: Each arch consists of two legs 8 and 9 preferably of angle iron, the upper ends 10 and 11 of the legs being curved so that when united they form substantially a semi-circle, and the portions of the legs immediately below the curved portion and above the casting walls being substantially vertical, and the lower halves 12 and 13 of the legs flaring outwardly and passing downwardly outside of the casting walls. Pivots 14 and 15 connect the lower ends of the arches to the lower ends of the ribs 1. The upper ends of the legs 8 and 9 are adjustably connected together by hinges 16; the straps of the hinges being of considerable length and having a plurality of openings so that the bolts 17 securing the hinges to the legs may be moved from one set of openings to another to adjust the distance between the legs.

The details of the link and lever connections C are as follows: The links 18 have a plurality of pivot holes 19 so that the pivot bolts 20 may be moved from one set of holes to another to adjust the distance between the legs of the arches. The hand levers 21 are pivotally connected to the opposite legs of the arches from the pivot bolts 20 by bolts 22, and the links 18 are pivotally connected to the levers by bolts 23, so that when the hand levers 21 are thrown upwardly the legs of the arches are forced apart to unclamp the casting walls from the old casting, and so that when the levers 21 are thrown downwardly the bolts 23 pass outwardly and downwardly below the bolts 22 and lock the legs of the arches together, in their compressed positions.

The details of the adjusting connections D between the upper sides of the casting walls and the arches are as follows: Slotted sockets 24 are secured to the outer faces and upper ends of the ribs 1. The adjusting screws 25 are screw-seated through the legs of the arches and have balls 26 upon their inner ends to engage in the sockets, there being wings upon the outer ends of the screws for manual manipulation, so that as the screws are manipulated the upper sides

of the casting walls are moved inwardly or outwardly relative to the legs of the arches.

I claim:

- 5 1. In a concrete mold, casting walls having curved inner faces of sheet metal, hinged arches pivotally connected to the lower sides of the casting walls and extending upwardly outside of the casting walls, adjustable lever
10 connections between the sides of the arches at points above the casting walls, and adjusting connections between the upper sides of the casting walls and the arches.
2. In a concrete mold, metal faced casting
15 walls, arches pivotally connected to the lower sides of the casting walls and extending upwardly outside of the casting walls, there being adjustable flexible connections between the two sides of the arches and adjustable
20 lever connections between the two sides of the arches, so that the distance between the

casting walls may be expanded or contracted for walls of different widths.

3. In a concrete mold, casting walls adapted to set with their lower edges farther
25 apart than their upper edges, arches pivotally connected to the lower sides of the casting walls and extending upwardly outside of the casting walls, there being adjustable flexible connections between the two sides
30 of the arches, and the lower halves of the two sides of the arches being inclined outwardly and downwardly, adjustable lever connections between the two sides of the arches at points above the casting walls, and
35 adjustable ball and socket connections between the upper sides of the casting walls and the arches.

HENRY CLAY BABEL.

Witnesses:

C. J. WILLIAMS,
IDA M. DASKAM.