

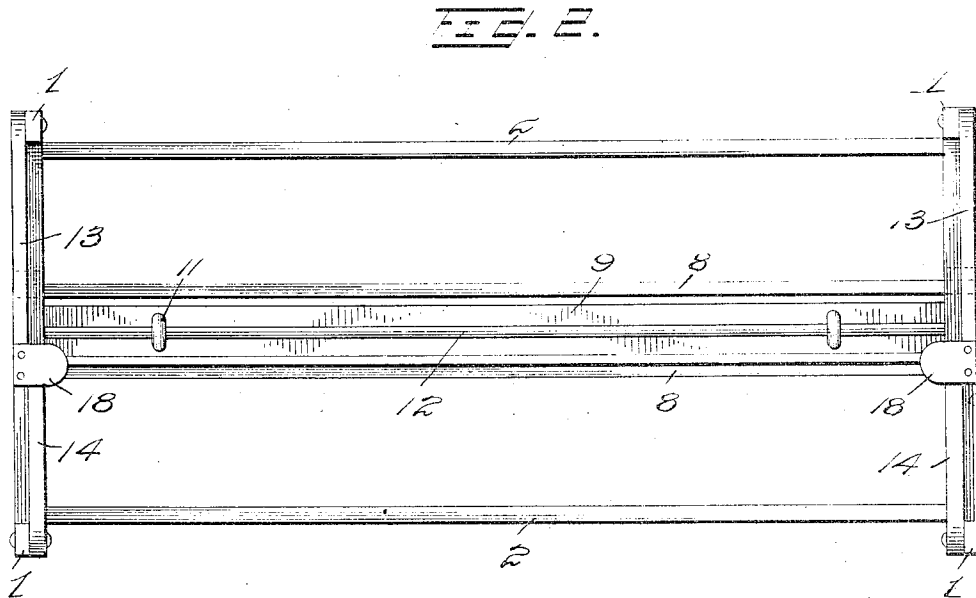
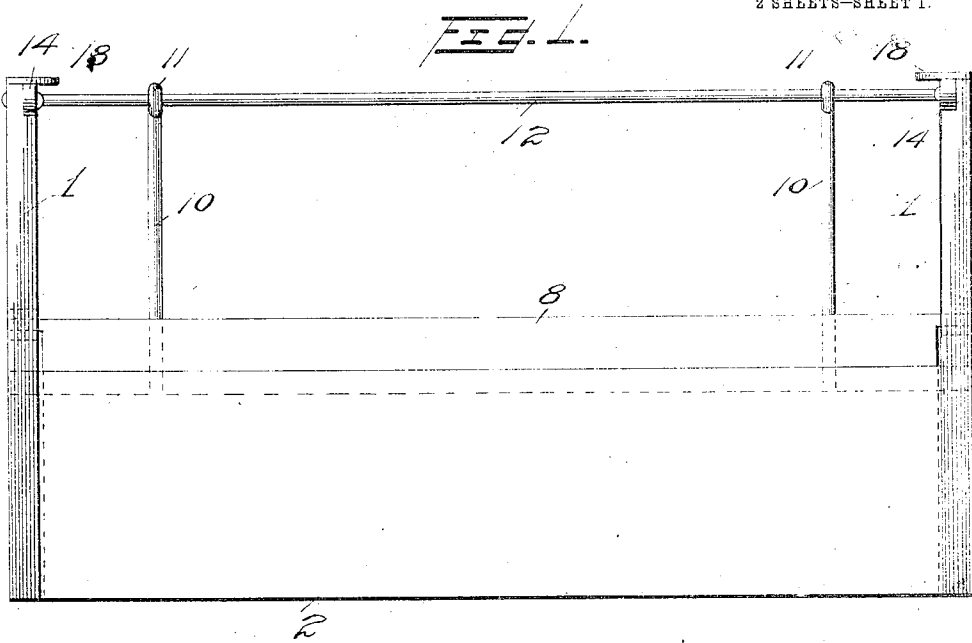
H. T. FROST.
MOLD.

APPLICATION FILED DEC. 8, 1911.

1,041,991.

Patented Oct. 22, 1912.

2 SHEETS—SHEET 1.



WITNESSES

E. B. Duffy
W. M. Harper

INVENTOR:

Horatio T. Frost,
by *E. P. Bump*
his Attorney

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MOLD.

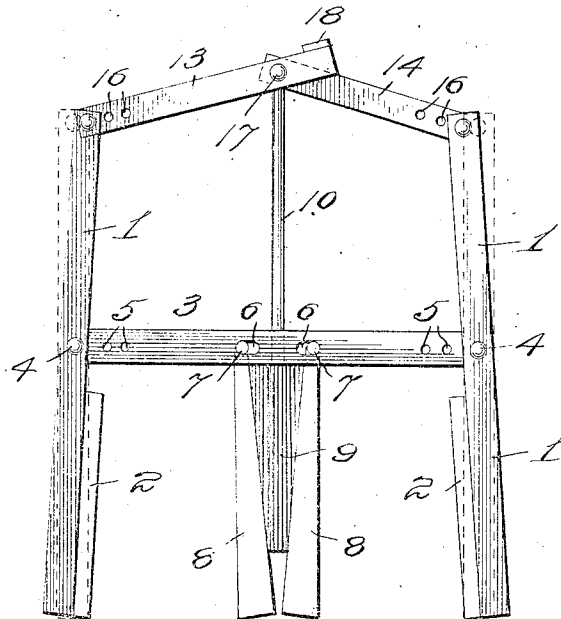
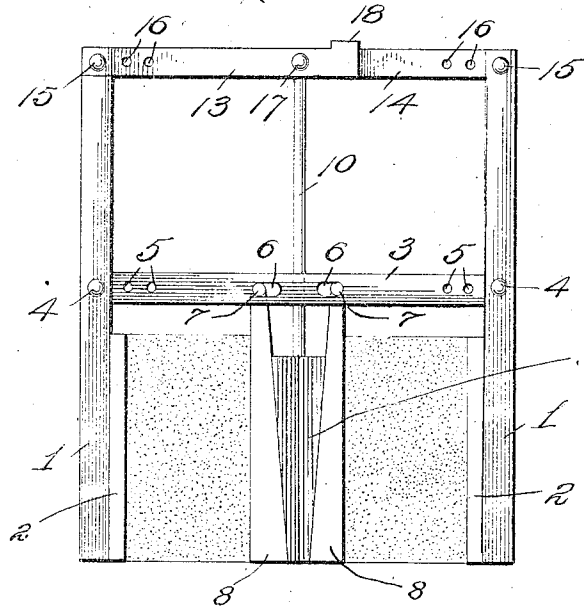
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2 SHEETS-SHEET 2.

FIG. 3.



WITNESSES

E. C. Duffy
W. M. Harper

FIG. 4.

INVENTOR:

Horatio T. Frost,
by E. C. Duffy
his Attorney

UNITED STATES PATENT OFFICE.

HORATIO T. FROST, OF VIVIAN, SOUTH DAKOTA.

MOLD.

1,041,991.

Specification of Letters Patent.

Patented Oct. 22, 1912.

Application filed December 8, 1911. Serial No. 664,650.

To all whom it may concern:

Be it known that I, HORATIO T. FROST, a citizen of the United States of America, residing at Vivian, in the county of Lyman and State of South Dakota, have invented certain new and useful Improvements in Molds, of which the following is a specification.

This invention relates to molds for forming ventilated concrete walls or buildings and one of the principal objects of the invention is to provide reliable and efficient means for molding a double concrete wall having an intermediate ventilating air space between the members of the wall, said mold being provided with means for contracting and removing the core and the side members of the mold from the wall after it has been formed and set.

Another object of the invention is to provide improved means for moving the side members of a mold away from the molded article and simultaneously withdrawing the core of the mold.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of a mold made in accordance with my invention; Fig. 2 is a top plan view of the same; Fig. 3 is an end view of the mold in position for receiving the concrete; Fig. 4 is a similar view showing the side members of the mold and the core moved to a position to permit the mold to be removed from the molded wall.

My present invention is designed as an improvement on certain features illustrated in my Patent #965,805, dated July 26, 1910.

Referring to the drawings, the numerals 1 designate vertical upright members of a frame and secured to the inner sides near the lower ends of said upright members are longitudinal boards or molding plates 2 for the outer and inner sides of the wall. Extending across above the boards 2 and pivotally connected to the uprights 1 are cross bars 3, one at each end of the mold, said cross bars being pivotally connected at 4 to the uprights 1 and provided with a series of perforations 5 for permitting adjustment as to thickness of the wall desired. Near the center of the cross bar 3 slots 6 are provided and extending through said slots are studs 7 formed on or connected to the core members 8, said studs forming pivotal points for

said members and permitting the same to move toward and from each other. The members 8 are thicker at their lower ends and somewhat thinner at their upper ends, and mounted between the members 8 is an expander or wedge 9, said wedge being connected to rods 10 and said rods having rings or loops 11 at their upper ends which surround the longitudinal rod 12, as shown more clearly in Figs. 1 and 2. At the upper ends of the members 1 end links or sectional cross-bars 13—14 are pivoted on the bolts 15 and said cross bars are each provided with perforations 16 to permit adjustment one toward and from the other for forming thicker or thinner wall members. The longitudinal rod 12 extends through members 13—14 and is pivoted thereto as at 17. A stop lug 18 is formed on or connected to the member 13.

The operation of my invention may be briefly described as follows: When the mold is in the position shown in Figs. 1 and 3 the concrete material is inserted between the boards 2 and the members 8 to form two separate walls. When the concrete material has become set and in condition for removing the mold, the rod 12 is raised to the position shown in Fig. 4 to simultaneously throw the boards 2 outward from the molded wall and to throw the members 8 inward to permit the mold to be removed or raised for another tier of the wall.

From the foregoing, it will be obvious that my present invention is of simple construction, can be operated quickly and will insure smooth surfaced walls having a ventilating opening or dead air space in the center thereof.

I claim:

1. A mold for ventilated concrete walls comprising uprights having molding boards or plates connected thereto a cross bar on which the uprights are pivoted, core members pivotally suspended from said cross bar, a movable wedge or expander mounted between the core members and provided with suspension rods, a longitudinal rod on which said core rods are mounted and cross bars at the end of the frame pivotally connected together for raising the core wedge and simultaneously throwing the mold boards or plates away from the molded wall.

2. A mold for concrete walls comprising uprights having molding boards or plates connected thereto, a cross bar on which said

uprights are pivoted, tapering core members suspended from said cross bar, a core wedge movable between said core members, and means for simultaneously loosening the core members and moving the molding members away from the finished wall.

3. A mold for concrete ventilated walls comprising uprights, molding boards or plates connected thereto, cross bars connected to said uprights at points near the center thereof, tapering mold members pivoted in slots in said cross bar, means for

adjusting the molding boards inwardly and outwardly, a central wedge for expanding and loosening said core members, and means for simultaneously loosening the core members and moving the molding boards away from the molded wall.

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

HORATIO T. FROST.

Witnesses:

THOS. A. REGNIER,
A. O. OHESON.