G. F. MILLS.

CONCRETE CONSTRUCTION.

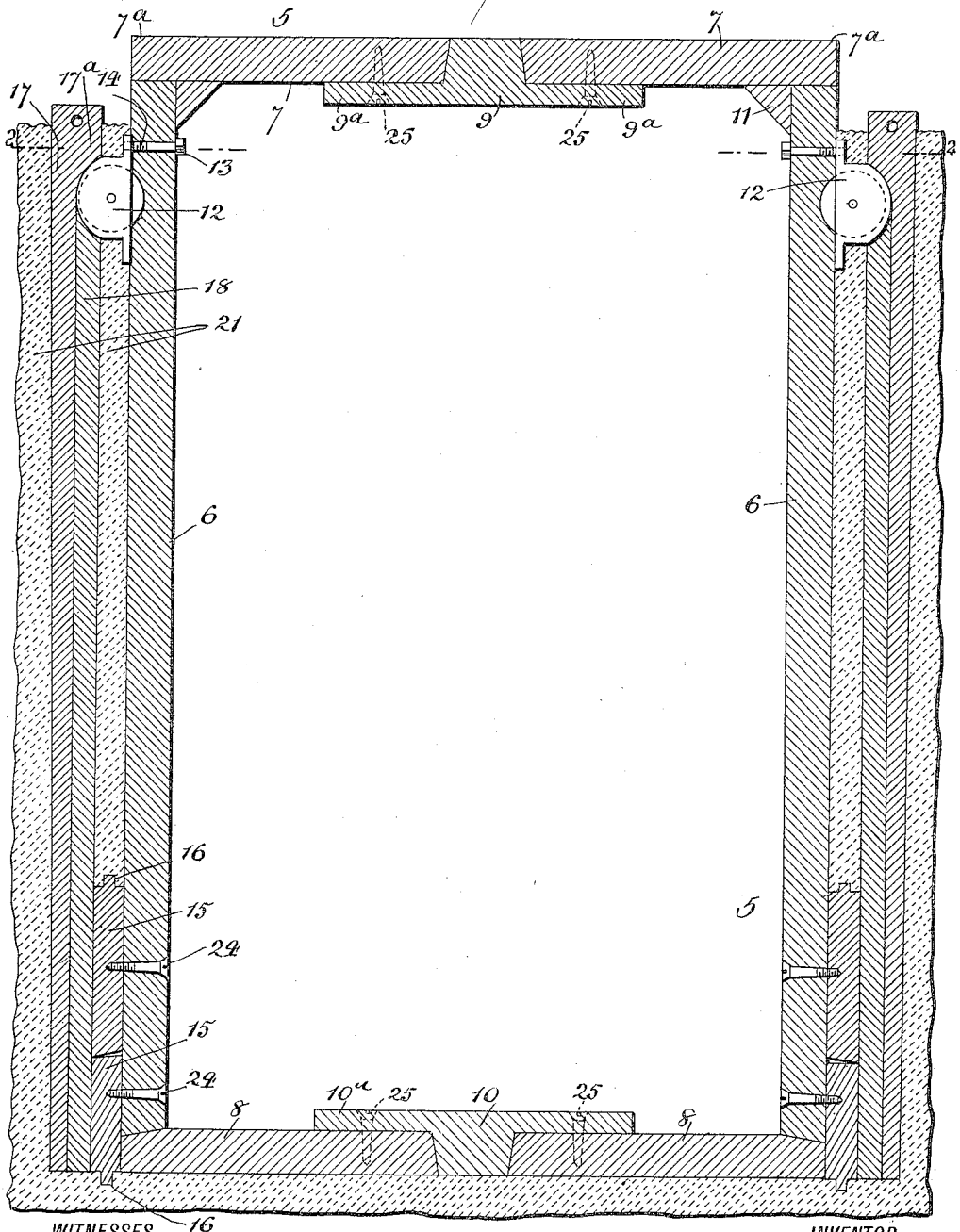
APPLICATION FILED OCT. 4, 1911.

1,075,928.

Patented Oct. 14, 1913.

2 SHEETS—SHEET 1.

Fig. 1.



WITNESSES

H. J. Walker

E. B. Marshall

INVENTOR

George F. Mills.

BY Munn & Co.

ATTORNEYS

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

G. F. MILLS.

CONCRETE CONSTRUCTION.

APPLICATION FILED OCT. 4, 1911.

1,075,928.

Patented Oct. 14, 1913.

2 SHEETS—SHEET 2.

Fig. 2.

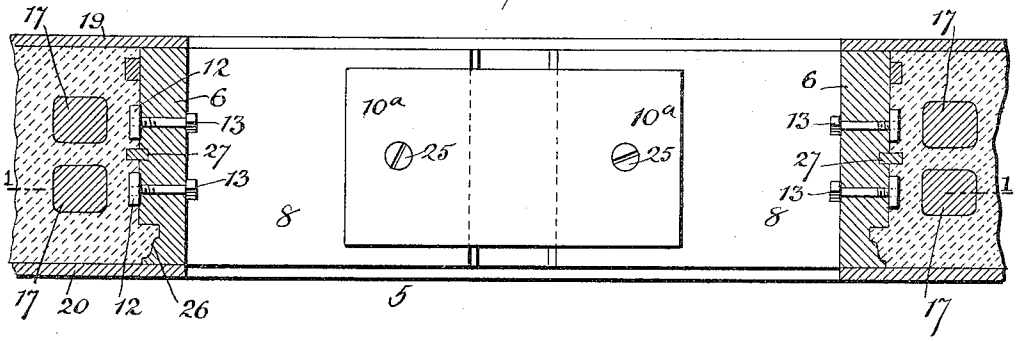


Fig. 3.

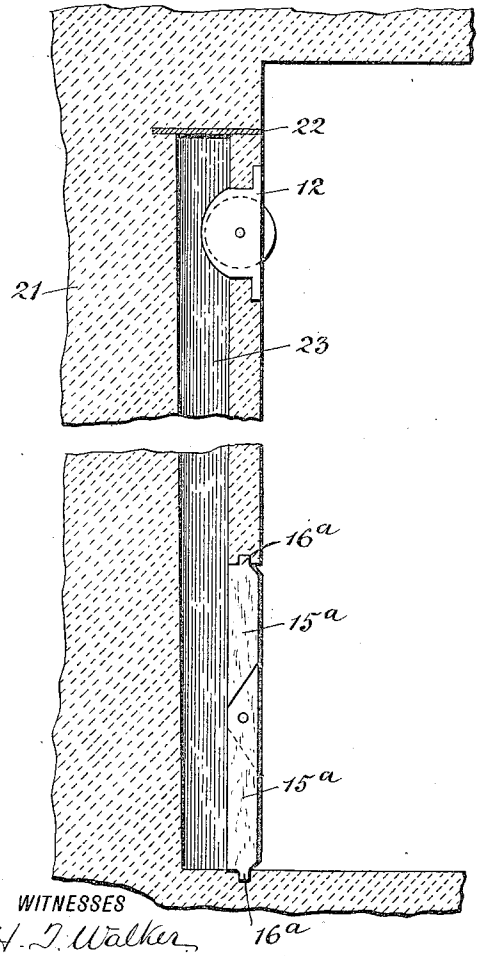
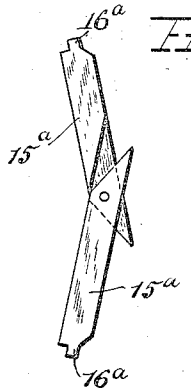


Fig. 4.



WITNESSES

H. J. Walker

E. B. Marshall

INVENTOR

George F. Mills.

BY Munn & Co.

ATTORNEYS

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE FLETCHER MILLS, OF COTTAGEHILL, FLORIDA.

CONCRETE CONSTRUCTION.

1,075,928. Specification of Letters Patent. Patented Oct. 14, 1913.

Application filed October 4, 1911. Serial No. 652,726.

To all whom it may concern:

Be it known that I, GEORGE F. MILLS, a citizen of the United States, and a resident of Cottagehill, in the county of Escambia and State of Florida, have invented a new and Improved Concrete Construction, of which the following is a full, clear, and exact description.

My invention relates to concrete construction, and it has for its object to provide molds for concrete window frames, and means by which the sash pulleys and weights may be disposed in the concrete frames.

Additional objects of the invention will appear in the following complete specification, in which the preferred form of the invention is disclosed.

In the drawings similar characters of reference indicate corresponding parts in all the views, in which—

Figure 1 is a sectional elevation of my window frame mold, disposed in a concrete wall in the course of construction: Fig. 2 is a sectional view on the line 2—2 of Fig. 1; Fig. 3 is a fragmentary sectional elevation showing a portion of one of the concrete window frames after it has been completed and the mold has been removed; and Fig. 4 is a view of one pair of pivoted members with the pegs which are detachably secured to the outer sides of the frames.

By referring to the drawings it will be seen that the frame member 5 is composed of the side members 6 and two pairs of intervening members 7 and 8, and the wedge members 9 and 10. The intervening members 7 have terminals 7^a which are disposed on the top of the side members 6 and secured to these intervening members 7 are depending members 11, which engage the inner sides of the said side members 6. The wedge member 9 serves to hold the intervening members 7 spaced from each other and integral with the wedge member 9 there are flanges 9^a which are disposed against the underside of the intervening members 7, and are secured thereto. The wedge member 10 is disposed between the intervening members 8, the side members 6 being supported on the said intervening members 8. This wedge member 10 has flanges 10^a which are disposed on the intervening members 8 and are secured thereto. Disposed against the outer sides of the side members 6 there are sash pulley brackets 12, these sash pulley brackets being held from position by means of screws or other members 13 which extend from the inner sides of the side members 6 through openings 14 in the said side members, and detachably engage the said sash pulley brackets.

Secured to the outer sides of the side members 6 there are two pairs of core members 15, the core members in each pair being disposed one over the other, the upper ends of the upper core members 15 and the lower ends of the lower core members 15 having pegs 16 which are embedded in the concrete when the wall is erected. As will best be seen by referring to Figs. 3 and 4 of the drawings, these core members 15 may be freed from the side members 6.

Spaced from the side members 6 there are core members 17 and 18, the core members 18 resting on the concrete wall which has been completed, and being disposed close against the underside of the outer portion of the sash pulley brackets 12. The core members 17 are disposed against the outer sides of the core members 18, and have projecting portions 17^a which are disposed against the side and the outer portion of the top of the sash pulley brackets 12. The core members 18 and 17 are constructed to fit snugly around the outer side of the sash pulley brackets, so that when they are in position and the concrete is disposed between the mold members 19 and 20 of the wall, the concrete will be built up at 21 against the inner side of the core members 18 and against the outer side of the core members 17. The core members 17 and 18 form well holes for the sash weights. When the wall has been erected nearly to the top of the frame mold 5 the core members 17 are withdrawn, after which the core members 18 are withdrawn. When the core members 17 and 18 have been withdrawn, plates 22 are disposed in the wall to cover the openings 23 which have been formed by the said core members 17 and 18. The construction of the wall is then continued to the top and around the frame mold 5. When the wall has been finished all around the frame mold 5 the frame mold is removed by removing the screws 13, and also the screws 24, so that when the frame mold 5 is taken apart and removed the sash pulley 12 will not be removed with the side members 6 but will be retained in the concrete frame. The mold frame 5 is removed by unscrewing the screws 25 after which the wedge members 9

and 10 are taken out of position to permit of the removal of the intervening members 7 and 8, after which the side members 6 may be freed from the frame. As shown in Fig. 2 of the drawings, the side members 6 of the frame mold 5 may be constructed to form moldings 26. The strips 27 may be held temporarily in place by the side members 6 so that they may be retained in the concrete to separate the lower and upper sashes in the window. When the side members 6 of the frame are removed, the upper core members 15 are withdrawn and then the lower core members 15, the sash weights being introduced through the openings formed by the core members 15 to the sash weight well holes formed by the core members 17 and 18. Two pairs of pivoted stops 15^a are provided by closing the openings formed by the core members 15 the pivoted stops having pegs 16^a for fitting the holes formed by the pegs 16.

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

1. A knock-down frame mold, a sash pulley bracket detachably secured to the outer side of the frame mold, so that when the concrete is disposed around the frame mold and set the sash pulley bracket may be freed from the frame mold and the frame mold may be taken apart and removed with the sash pulley bracket remaining in the frame formed in the concrete by the frame mold, two adjacent removable core members, one disposed under the sash pulley bracket and spaced from the frame mold and the other extending downwardly at the side of the sash pulley bracket, two additional removable core members one disposed above the other and both detachably secured to the same side of the frame mold, as the bracket and spaced therefrom an upwardly extending peg on the upper additional core member, and a depending peg on the lower additional core member.

2. A knock-down frame mold, a sash pulley bracket detachably secured to the outer side of the frame mold, so that when concrete is disposed around the frame mold and set the sash pulley bracket may be freed from the frame mold, and the frame mold may be taken apart and removed with the sash pulley bracket remaining in the frame formed in the concrete by the frame mold, and removable mold members normally disposed downwardly from the sash pulley brackets for the purpose specified.

3. A knock-down frame mold, a sash pulley bracket detachably secured to the outer side of the frame mold, so that when the concrete is disposed around the frame mold and set, the sash pulley bracket may be freed from the frame mold and the frame mold may be taken apart and removed with the sash pulley bracket remaining in the frame formed in the concrete by the frame mold, two adjacent removable core members, one disposed under the sash pulley bracket, and spaced from the frame mold, and the other extending upwardly at the side of the sash pulley bracket, and an additional removable core member spacing one of the first-mentioned core members with the frame mold.

4. A knock-down frame mold, a sash pulley bracket detachably secured to the outer side of the frame mold, so that when concrete is disposed around the frame mold and set the sash pulley bracket may be freed from the frame mold, and the frame mold may be taken apart and removed with the sash pulley bracket remaining in the frame formed by the concrete in the frame mold, two adjacent removable core members one disposed under the sash pulley bracket and spaced from the frame mold and the other extending downwardly at the side of the sash pulley bracket.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEO. FLETCHER MILLS.

Witnesses:
F. W. RILEY,
E. PARKER.

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