S. R. McKAY.

CONCRETE FORM.

APPLICATION FILED SEPT. 13, 1916.

1,306,384. Patented June 10, 1919.

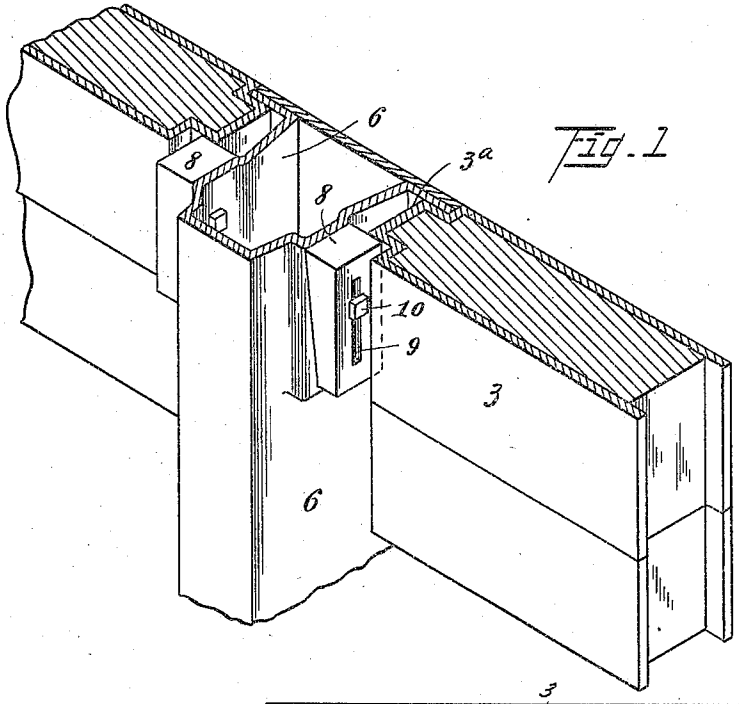


Fig. 1

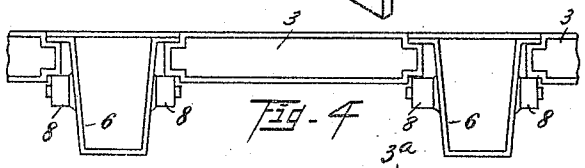


Fig. 4

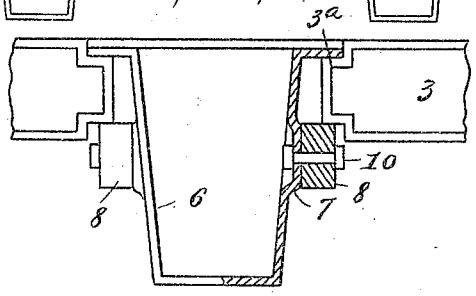


Fig. 2

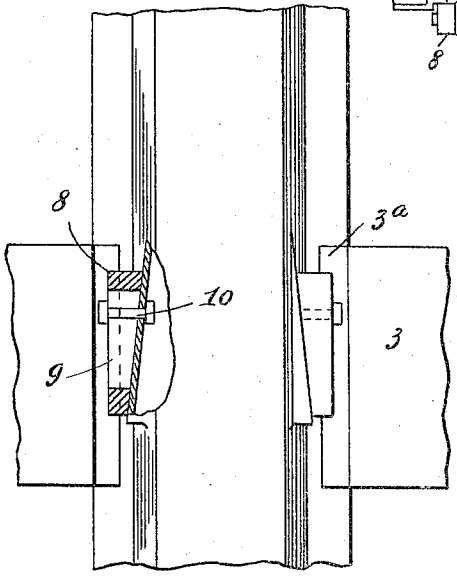


Fig. 3

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

STEWART R. McKAY, OF CLEVELAND, OHIO, ASSIGNOR TO McKAY CONCRETE FORM COMPANY, OF SEWAREN, NEW JERSEY, A CORPORATION OF NEW JERSEY.

CONCRETE-FORM.

1,306,384. Specification of Letters Patent. **Patented June 10, 1919.**

Original application filed June 12, 1915, Serial No. 33,798. Divided and this application filed September 13, 1916. Serial No. 119,849.

To all whom it may concern:

Be it known that I, STEWART R. McKAY, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Concrete-Forms, of which the following is a full, clear, and exact description.

This invention relates to forms which are employed for the purpose of molding concrete material, the invention shown herein being illustrated in connection with the construction of a wall, such as may be employed in the erection of buildings. The invention relates more particularly to the construction and arrangement of the posts, panels and fastening means whereby the panels may be conveniently applied to and removed from the posts and may be efficiently retained in operative relation to the work during the molding operation.

The invention herein disclosed is a division of my application No. 33798 filed June 12, 1915.

In the drawings forming part hereof, Figure 1 represents a sectional detail in perspective of a post, a pair of panels and the clamping means employed for securing the latter to the posts; Fig. 2 is a plan view, with certain parts in section, of the assembly shown in Fig. 1; Fig. 3 an elevation of the assembly shown in Figs. 1 and 2; and Fig. 4 a plan view of a portion of a mold embodying my invention.

In the drawings forming part hereof, 6 denote vertical posts which are preferably of hollow pressed metal. Each post consists generally of a channel having tapered sides each provided with a flange 6^a to which a cover plate 6^b is applied in any convenient manner, the flanges 6^a and the lateral edges of the plate 6^b forming laterally extending lips. Projecting from each side of each post 6, and preferably pressed therefrom, is a projection 7 having a downwardly and outwardly beveled surface 7^a. Coöperating with each of these beveled surfaces is the beveled surface 8^a of a clamping block 8, said block forming a wedge between the side of the post and the adjacent end of a channel, as will be explained hereinafter. Each block is slidably mounted upon a projection 7, as by means of a slot 9 in said block and a bolt 10 extending through said slot and having a head 10^b adapted to bear against the inner surface of the projection 7 and a nut 10^a adapted to overhang the sides of the slot 9.

Coöperating with each side of the post 6 is a panel 3. This panel preferably comprises a wooden body or filler 3^a having at each end thereof a tongue 3^b. The sides and lateral ends of the filler are shown as covered by metal sheathing 3^c which extends around the lateral ends of the filler and which conforms to the tongues 3^b, as shown at 3^d. The parts are so proportioned that, when the inner or work-facing sides of the tongues 3^d engage the lips at the inner or work-facing sides of the posts, the inner or work-facing sides of the panels and of the posts will provide a plane surface. Furthermore, the parts are also so proportioned that the inner or work facing sides of the wedge blocks 8 will engage the outer sides of the tongues, the thickness of the blocks being such that, when driven downwardly along their beveled sides, they will engage the shoulders 3^e provided between the tongue and the outer or rear surface of the panel whereby the panels will be held between the wedge blocks and the lips and will be wedged between the posts.

It will be evident that the panels may be applied to the posts with the tongues interposed between the wedges and the lips, by sliding the panels longitudinally of the posts. When it is desired to remove the panels, the wedge blocks may be driven upwardly. By suitably proportioning the tongues 3^d and the thickness and inclination of the wedge blocks and the beveled projections, the blocks may be moved upwardly a sufficient distance to clear the said tongues and thus facilitate the assembling and dis- assembling of the panels and posts.

Through the construction described, each post has a lateral side presented toward the other and each side is provided with a stop between the projection 7 and the work-facing or forward side of the post and with a wedge block which is adapted by its movement along such projection to engage the portion 3^e of the panel which is located outside or rearward of the tongue, whereby the panel will be retained in place between the forward or work-facing side of a wedge block and the seat formed by the flanges 6^a as well as by the wedging action exerted between the blocks 8 and the shoulders 3^e.

The posts may be secured in properly spaced relation by ranger rods applied in any desired manner, as, for instance, shown in my application No. 872,648 filed Nov. 17, 1914.

Having thus described my invention, what I claim is:

1. In a form of the character described, the combination, with a pair of spaced posts each having a side thereof provided with a beveled surface, of a panel insertible between said posts, and a clamping member movable along each of said beveled surfaces and adapted through such movement to secure the panel in place between said posts.

2. In a form of the character described, the combination, with a pair of spaced posts each having a side thereof provided with a beveled surface, of a panel insertible between said posts, and a clamping member supported by each post and movable along the beveled surface thereof and adapted through such movement to secure the panel in place between said posts.

3. In a form of the character described, the combination, with a pair of spaced posts, each post having a beveled projection presented toward the other, of a panel interposable between said posts, and a wedge block movably connected to each projection and adapted to be brought into and out of engagement with the adjacent lateral end of said panel.

4. In a form of the character described, the combination, with a pair of spaced posts, each post having a beveled projection presented toward the other, of a wedge block having a slot therethrough, a bolt carried by each projection and extending through the slot of a wedge block, and a panel interposable between said posts and adapted to be engaged by said wedge blocks.

5. In a form of the character described, the combination, with a pair of posts, each post having presented toward the other a side having a beveled projection and a seat between such projection and the inner or work-facing side of such post, of a wedge block movably connected to each of said projections, and a panel adapted to be interposed between said posts and having at each lateral end thereof a projection adapted to coöperate with a post seat and with a wedge block and a surface adapted to be engaged by the wedge block as the latter is moved along said projection.

6. In a form of the character described, the combination, with a pair of posts, each post having presented toward the other a side having a beveled surface and a seat between such surface and the inner or work-facing side of such post, of a wedge block movable along each of said projections, and a panel adapted to be interposed between said posts and having at each lateral end thereof a projection adapted to coöperate with a post seat and with a wedge block and a surface adapted to be engaged by the wedge block as the latter is moved along said projection.

7. In a form of the character described, the combination, with a pair of posts, each post having presented toward the other a side having a beveled projection and a laterally extending seat between such projection and the inner or work-facing side of such post, of a wedge block movably connected to each of said projections, and a panel adapted to be interposed between said posts and having at each lateral end thereof a tongue adapted to engage with one side the seat of a post and with its other side the side of said wedge block, the said panel having a rearwardly extending projection at each lateral end thereof adapted to be engaged by said wedge block as the latter is moved along its projection on the post.

8. As a new article of manufacture, a post having at each lateral side thereof a beveled projection and a block carried by the post and movable along each of said projections.

9. As a new article of manufacture, a post having a beveled surface and a block carried by the post and movable along said surface.

10. As a new article of manufacture, a post having at each lateral side thereof a beveled projection, a wedge block slidable along said projection and movably connected thereto, and a seating projection interposed between each of the first mentioned projections and the forward or work-facing side of the post.

In testimony whereof, I hereunto affix my signature.

STEWART R. McKAY.

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