May 4, 1926. 1,583,406

W. H. McCLELLAND

MOLD PLATE AND REPLACER

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Fig. 1.

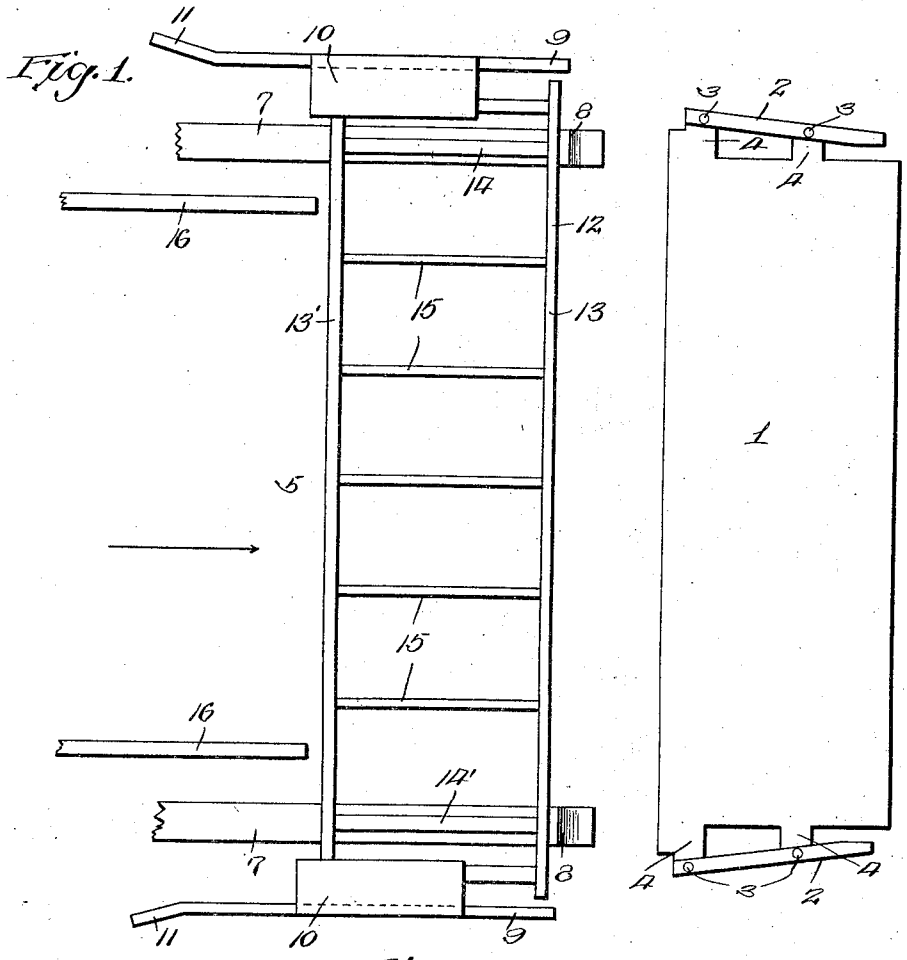
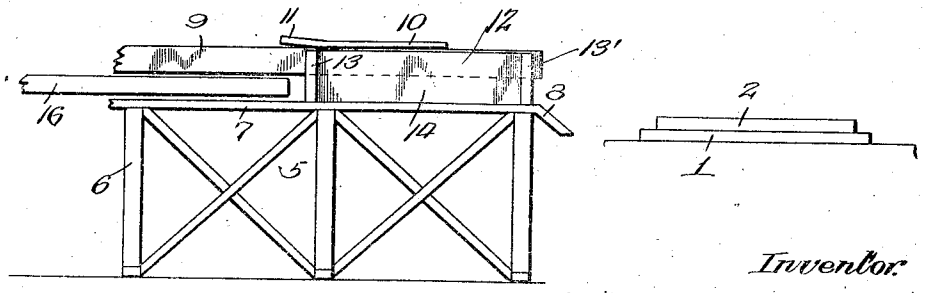


Fig. 2.



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Fig. 3.

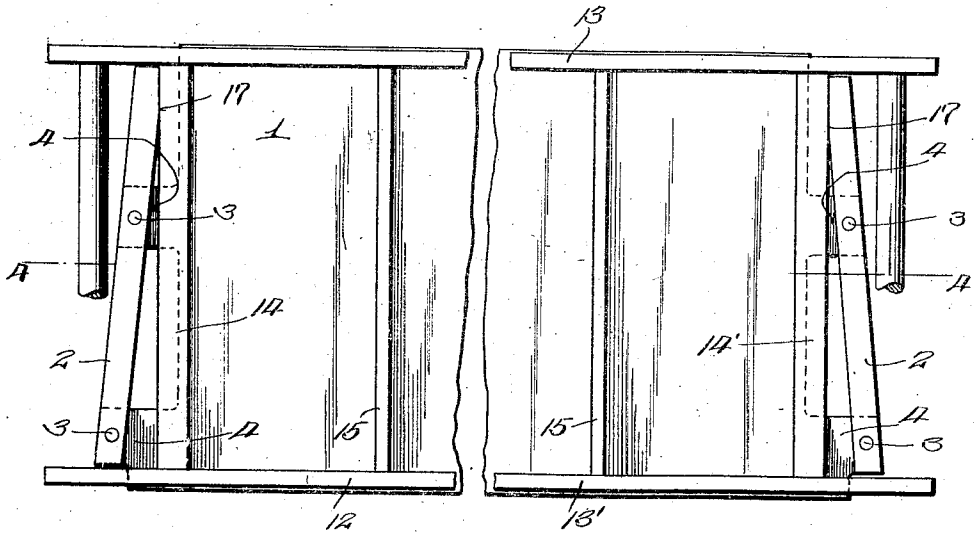


Fig. 4.

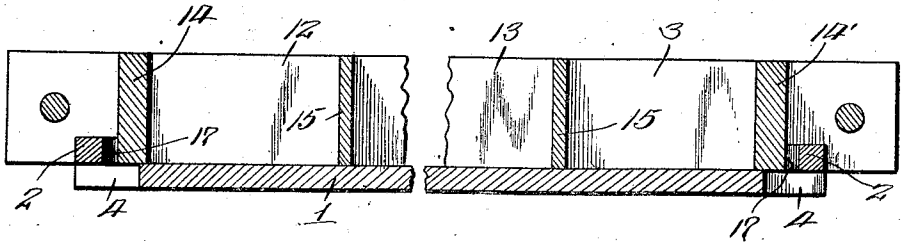
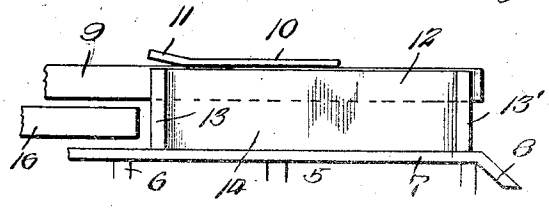
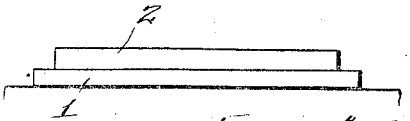


Fig. 5.





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Fig. 6.

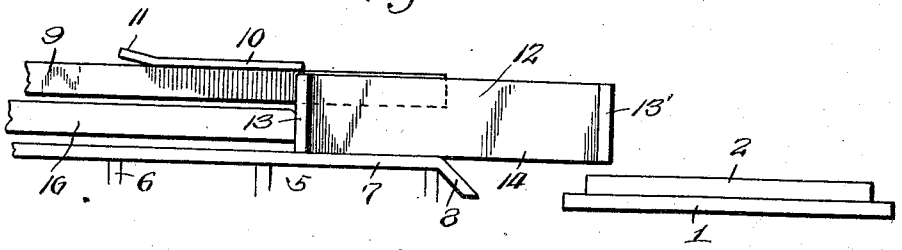


Fig. 7.

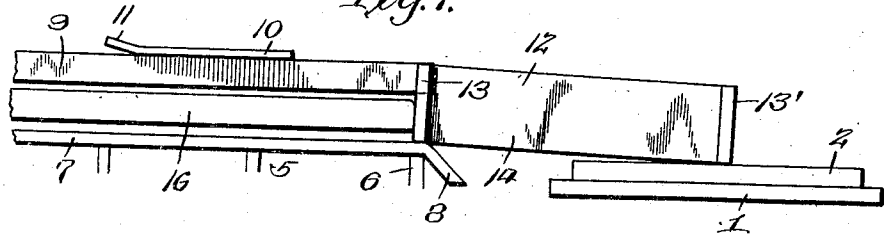


Fig. 8.

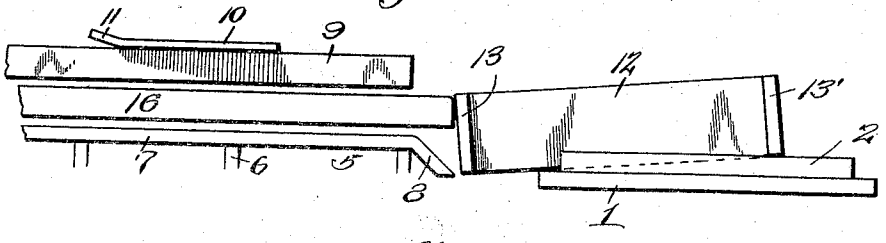
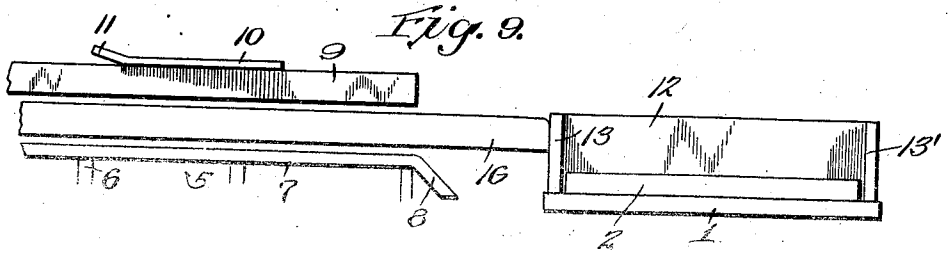


Fig. 9.



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Patented May 4, 1926. 1,583,406

UNITED STATES PATENT OFFICE.

WILLIAM H. McCLELLAND, OF HUNTINGDON, PENNSYLVANIA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO ROY P. M. DAVIS, OF MOUNT UNION, PENNSYLVANIA.

MOLD PLATE AND REPLACER.

Application filed December 15, 1924. Serial No. 755,933.

To all whom it may concern:

Be it known that WILLIAM H. McCLELLAND, a citizen of the United States of America, residing at 325 Penn Street, Huntingdon, in the county of Huntingdon and State of Pennsylvania, has invented certain new and useful Improvements in Mold Plates and Replacers, of which the following is a specification.

My invention relates to mold plates and mold replacers for brick making machines.

In brick making machines of the type illustrated in the copending application of the assignee of record in this case R. P. M. Davis, Serial No. 576,298, filed July 20, 1922, which has become Patent No. 1,498,614, it is essential that the empty brick molds be placed on the mold supports or plates and maintained thereon against relative horizontal movement. The proper positioning of the mold on the plate is difficult due to the fact that frequently considerable variation exists in the alignment of the plate with respect to the station from which the molds are advanced. It is the object of my invention to accomplish the foregoing desiderata and to obviate the objections just mentioned.

In the accompanying drawings wherein I have illustrated a preferred embodiment of my invention:

Figure 1 is a plan view showing the mold in initial position on the mold table;

Figure 2 is a side elevation of the same;

Figure 3 is a fragmentary plan view showing the mold in final position on the mold plate;

Figure 4 is a detail section on the line 4—4 of Figure 3; and

Figures 5, 6, 7, 8 and 9 are side elevations showing the various positions assumed by the mold.

Referring more specifically to the drawings 1, denotes a mold plate or support, supported by the reciprocating carriage (not shown) of a brick making machine (also not shown). This plate 1, is provided at each end with rearwardly and inwardly inclined bars 2, which are bolted as at 3, to lugs 4, projecting from the ends of the mold plate or support 1.

A mold delivery station 5, is arranged adjacent the path of movement of the mold plate 1, and when the plate arrives opposite the station at the approximate position illustrated in Figure 1, the mold 12, hereinafter more specifically described is pushed upon the plate in a manner also to be presently described.

The mold delivery station 5, comprises a mold table or supporting frame work having a pair of spaced horizontally disposed skid rails 7, provided with downwardly inclined forward ends 8. Positioned at each end of the table 6, is a side guide member or strip 9, to each of which is attached an inwardly projecting top guide member 10, the outer ends of the side guide members being outwardly deflected at 11, as illustrated in Figure 1.

Molds 12, which are fed to the table 6, by any suitable means (not shown) are of skeleton formation, comprising side walls 13—13′ end walls 14—14′ and partitions 15. As previously stated when mold plate 1, reaches Figure 1 position the mold 12, is manually or otherwise pushed inwardly to Figure 1 position by any suitable means such as pusher bars 16. In being moved to this position the mold 12, is initially guided by the deflected ends 11, of the side guides 9, and is then moved under the top guides 10, in its passage to Figure 5 position. Continued movement of the pusher bars in the direction of the arrow Figure 1, causes the mold 1, to reach Figure 6 position, the mold being precluded from overbalancing on the skid rails 7, by the top guides 10. Further movement of the mold releases the outer edge of the mold from beneath the top guides 10 and the mold then assumes Figure 7 position, resting partially on the skid rails and partially on the inclined bars 2, of the plate 1. The rear bottom portion of the mold then slides down the downwardly inclined ends of the skid rails and rests upon the top of the plate 1, between the bars 2, the bottom edge of the forward side wall 13 of the mold riding upon the bars 2. Upon completion of the stroke, the forward side plate of the mold rides over the ends of the bars 5, whereupon the mold assumes a horizontal or Figure 9 position, the end walls of the mold being snugly engaged between the forward beveled ends 17, of the bars 2, while the opposite ends of the bars 2, engage the respective side walls of the mold. The pusher bars 16, will then be moved back to their starting position by any suitable means (not shown) and the mold

plate with mold thereon will be ready to be moved to filling position, to receive a charge of mud.

Having thus described my invention, what I claim as my invention is:

1. In combination a table having skid rails adapted to support thereon a skeleton brick mold, a mold plate arranged adjacent the table, means for sliding said mold on said skid rails to said mold plate and means on said plate for centering said mold with respect to said plate and preventing movement of said mold in a horizontal plane relative to said plate.

2. As an article of manufacture, a mold plate for supporting skeleton molds having side and end walls, said plate having rearwardly converging side bars adapted to engage the said side and end walls of the mold.

3. In combination a table having skid rails adapted to support thereon a skeleton mold comprising side and end walls, a mold plate adjacent said table, said mold plate having rearwardly converging side bars adapted to engage the side and end walls of the mold when said mold is moved on said skid rails to superposed position on said mold plate, and means for sliding said mold from said rails to said superposed position.

4. In combination a table having skid rails adapted to support thereon a skeleton brick mold, side and top guides on said table for the mold, a mold plate adjacent said table and in a relatively lower horizontal plane, and means for pushing said mold along said skid rails between said side guides and beneath said top guides onto said plate.

5. In combination a table having skid rails adapted to support thereon a skeleton brick mold, a mold plate arranged adjacent the table, and in a relatively lower horizontal plane, and means for sliding said mold on said skid rails to said mold plate.

In testimony whereof I affix my signature.

WILLIAM H. McCLELLAND.