E. F. WEGE.

BRICK MOLD.

APPLICATION FILED JULY 14, 1910.

996,174.

Patented June 27, 1911.

2 SHEETS—SHEET 2.

Fig. 5.

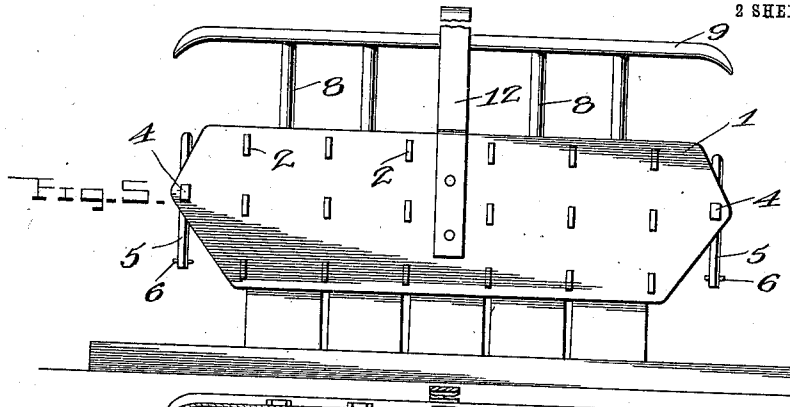


Fig. 6.

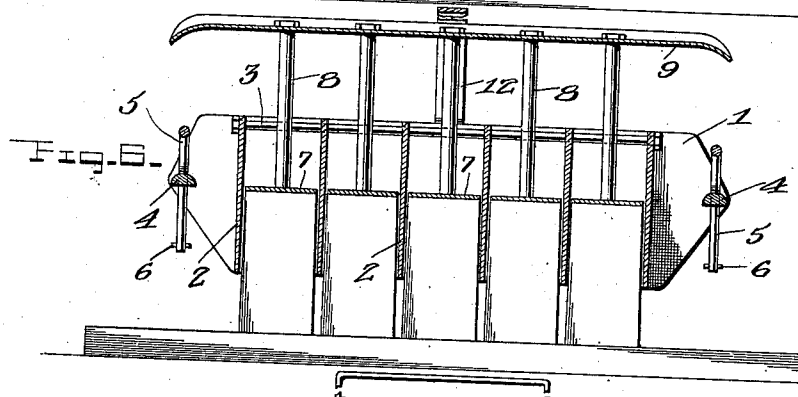


Fig. 7.

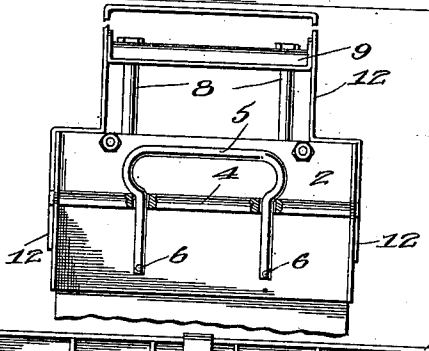
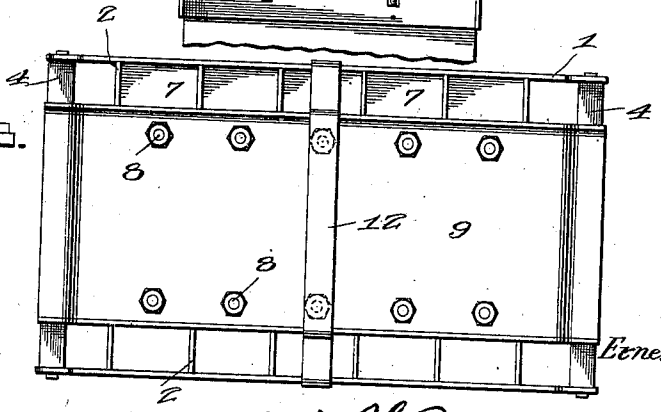


Fig. 8.



Witnesses

W. H. Rodwell

C. H. Griesbauer.

Inventor

Ernest F. Wege

by H. B. Williamson & Co.

Attorneys

E. F. WEGE.

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2 SHEETS—SHEET 1.

Fig. 1.

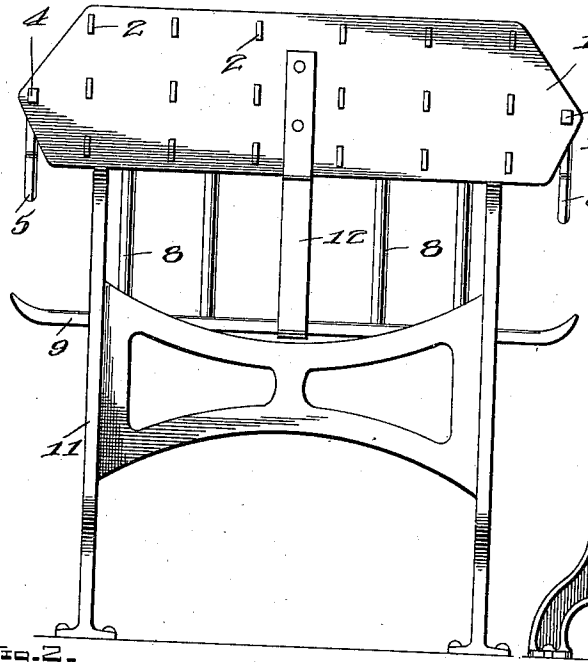


Fig. 3.

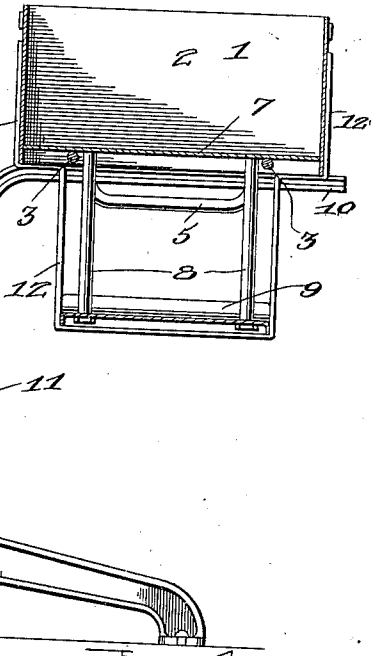


Fig. 2.

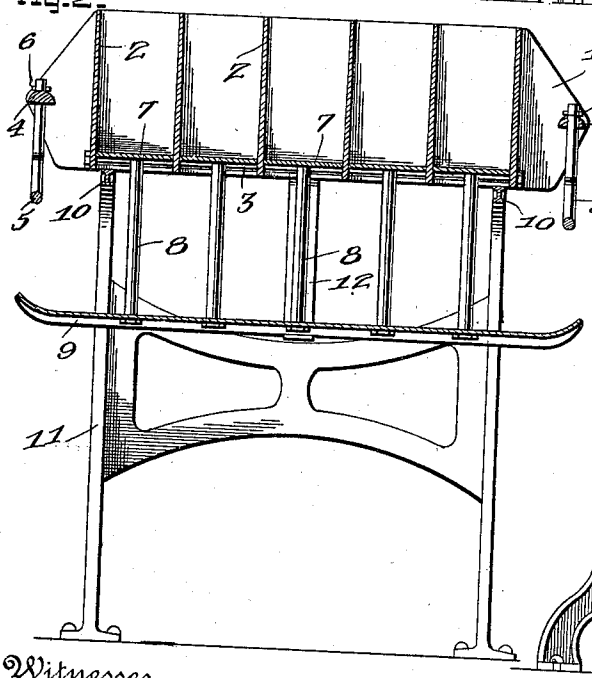
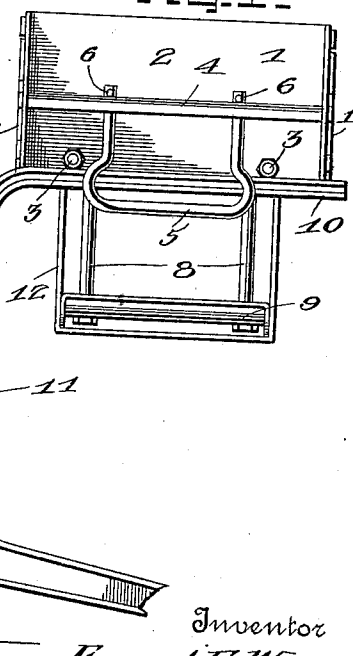


Fig. 4.



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C. H. Griesbauer.

Inventor

Ernest F. Wege

by A. B. Williamson & Co.

Attorneys

UNITED STATES PATENT OFFICE.

ERNEST F. WEGE, OF LA CROSSE, WISCONSIN.

BRICK-MOLD.

996,174. Specification of Letters Patent. **Patented June 27, 1911.**

Application filed July 14, 1910. Serial No. 571,998.

To all whom it may concern:

Be it known that I, ERNEST F. WEGE, a citizen of the United States, residing at La Crosse, in the county of La Crosse and State of Wisconsin, have invented certain new and useful Improvements in Brick-Molds; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in brick molds.

The object of the invention is to provide a brick mold which is particularly adapted for molding concrete bricks and which has arranged thereon an improved ejecting mechanism whereby the bricks may be readily forced out of the mold.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a front view of my improved mold arranged and supported in position for receiving the concrete. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a vertical cross section. Fig. 4 is an end view thereof. Fig. 5 is a side view showing the mold inverted and the bricks partly ejected therefrom. Fig. 6 is a vertical sectional view with the parts as shown in Fig. 5. Fig. 7 is an end view thereof. Fig. 8 is a bottom plan view of the mold.

In the illustrated embodiment of the invention, I provide a box 1 which may be of any desired size and shape and which is here shown as being of rectangular, oblong form. The box 1 is open on its upper and lower sides and is provided with a series of transverse partitions 2 which preferably taper toward their upper ends to facilitate the removal of the molded bricks, said partitions separating the box into a series of mold compartments having the desired shape and size of the bricks to be formed. Extending through the entire series of partitions, adjacent to their lower edges and near the opposite sides of the box, are tie rods 3, the ends of which project through the end partitions and are threaded to receive clamping nuts whereby said rods are held in position to brace and strengthen the mold.

The side pieces of the mold project beyond the ends of the box and the projecting ends of the sides are connected together by cross bars 4 in each of which are formed vertically disposed passages in which are loosely mounted bail shaped handles 5. The looped ends of the handles are of greater width than the space between the passages in the bars 4 and the ends of the handles are bent inwardly to the proper distance for engagement with the said passages in which said arms are loosely mounted to permit the handles to freely slide in the passages. By thus forming the looped portion of the handles of greater width than the distance between the passages in the bars 4, said looped ends of the handles will at all times project a sufficient distance from the bars 4 to permit the handles to be readily grasped. In the extremities of the ends of the handles are arranged stop pins 6 which prevent the handles from dropping out of the passages in the bars 4.

Slidably mounted in the mold compartments between the partitions 2 of the box 1, are a series of ejecting plungers each of which comprises a flat plate 7 to which are riveted the ends of pairs of operating rods 8 which extend through the mold compartments between the tie bars 3 and are connected at their opposite ends to an operating plate 9, which extends across the lower side of the box and projects a suitable distance beyond the ends thereof as shown. The ends of the plate 9 are slightly curved or rounded for a purpose to be hereinafter described.

On the opposite side edges of the plate 9 are formed downwardly projecting flanges which serve to brace and strengthen the plate as well as to form a protection for the projecting ends of the operating rods 8 and the nuts which secure the same to the plate.

In the operation of the mold, the plate 9, together with the ejecting plates 7, are brought downwardly through the mold until said plates 7 engage and rest on the tie rods 3 in which position said ejecting plates form the bottoms of the mold compartments. When the parts are in this position the box is engaged with the laterally projecting arms 10 of a suitable mold supporting stand 11 and is in readiness to receive the concrete for forming the bricks. When thus ar-

ranged the concrete is placed in the mold compartments and tamped to the desired firmness. After the cement has become sufficiently set the mold is removed from the supporting stand and turned upside down on a suitable pallet board after which the handles are grasped with the fingers of each hand while the palms of the hands engage the curved or rounded edges of the operating plate 9 when the latter is forced inwardly thereby forcing the ejecting plates through the compartments between the partitions and thus forcing the molded bricks out onto the pallet board as the mold box is raised or lifted therefrom. As the operating plate approaches the box the handles are pushed back through the passages in the bars 4 and the fingers are engaged with said bars in the completion of the ejecting operation, thus permitting the operating plate 9 to be brought up into engagement with the box.

In order to guide the operating plate 9 in its movements I provide a suitable guide frame 12 which is connected to the opposite sides of the box 1 and projects a suitable distance below the same as shown.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

What is claimed is:

A mold comprising a box provided with tie rods, said box having a series of partitions therein, a series of sliding ejecting plungers arranged between said partitions, each of which is composed of flat plates, operating rods, said plates having the ends of said rods secured thereto, said rods extending through the mold compartments between said tie rods and connected at their opposite ends to an operating plate having curved ends, cross bars for connecting the projecting ends of the side pieces of the mold together, said cross bars having vertically disposed passages therein, handle bars having looped ends mounted in said passages of the cross-bars and adapted to slide diametrically thereon, and the width of the looped portions of said handles being greater than the space between the passages of said bars.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ERNEST F. WEGE.

Witnesses:
A. C. WOLFE,
MARIE A. TIMMERLING.