F. HARPER.

MOLD FOR GARBAGE RECEPTACLES.

APPLICATION FILED MAR. 25, 1916.

1,190,256.

Patented July 4, 1916.

4 SHEETS—SHEET 1.

Fig. 1.

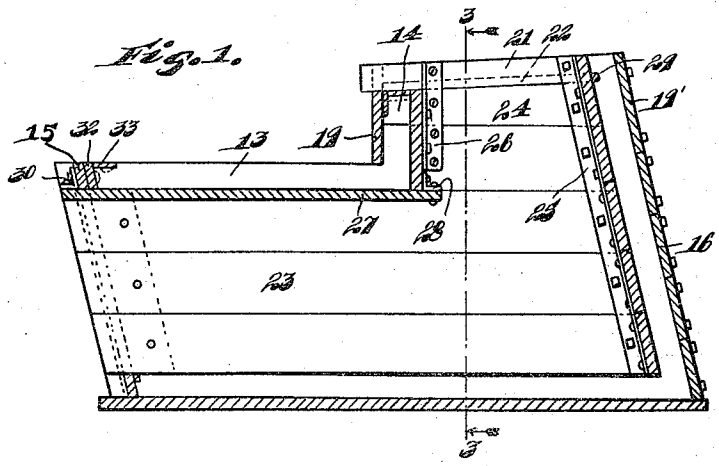
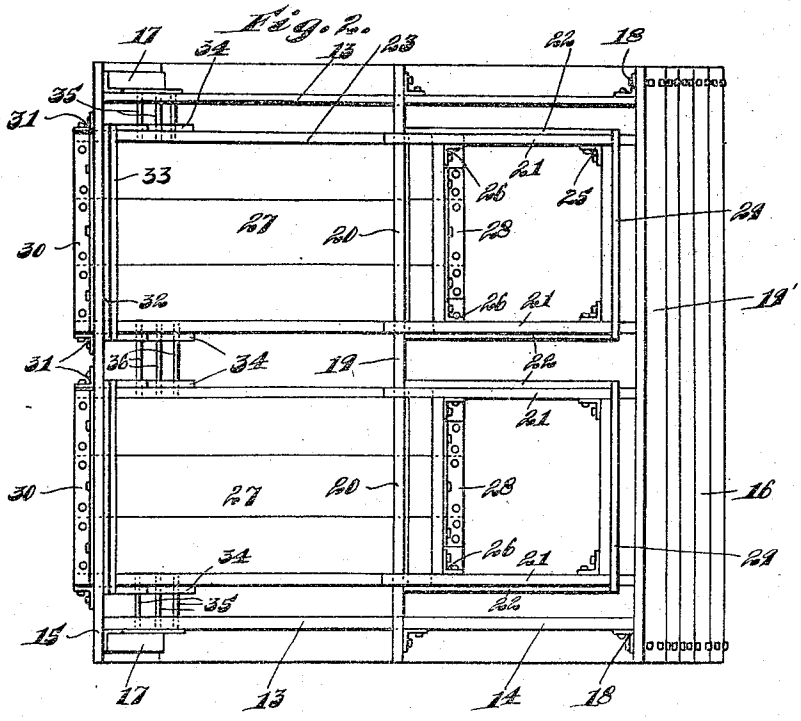


Fig. 2.



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4 SHEETS—SHEET 2.

Fig. 3.

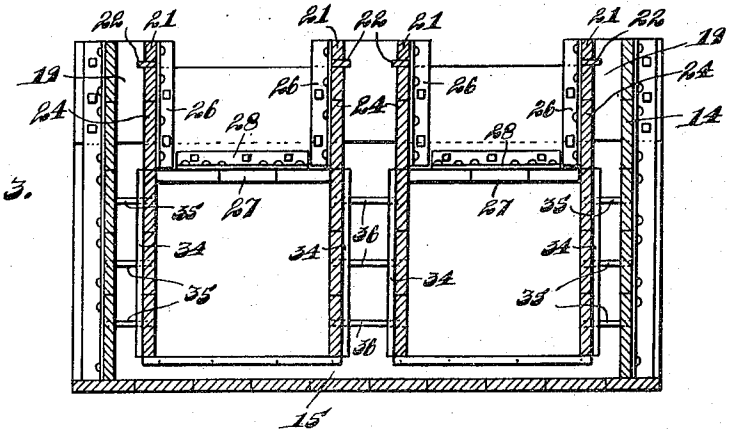


Fig. 4.

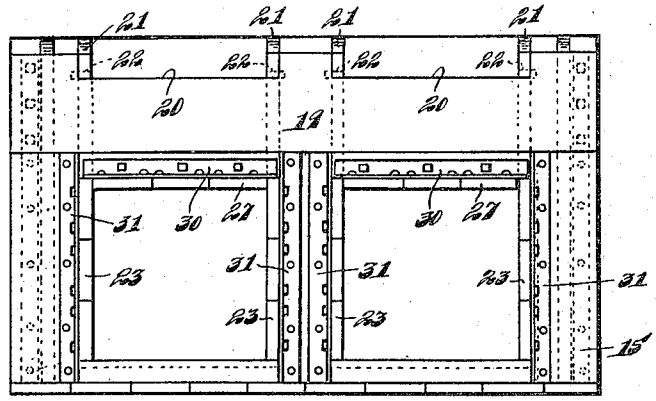


Fig. 5.

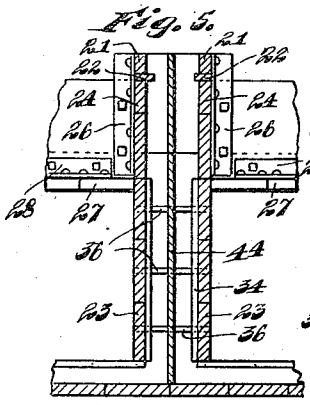
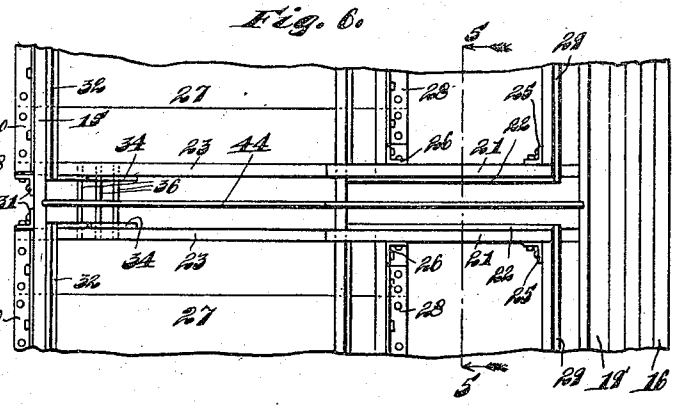


Fig. 6.



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4 SHEETS—SHEET 3.

Fig. 7.

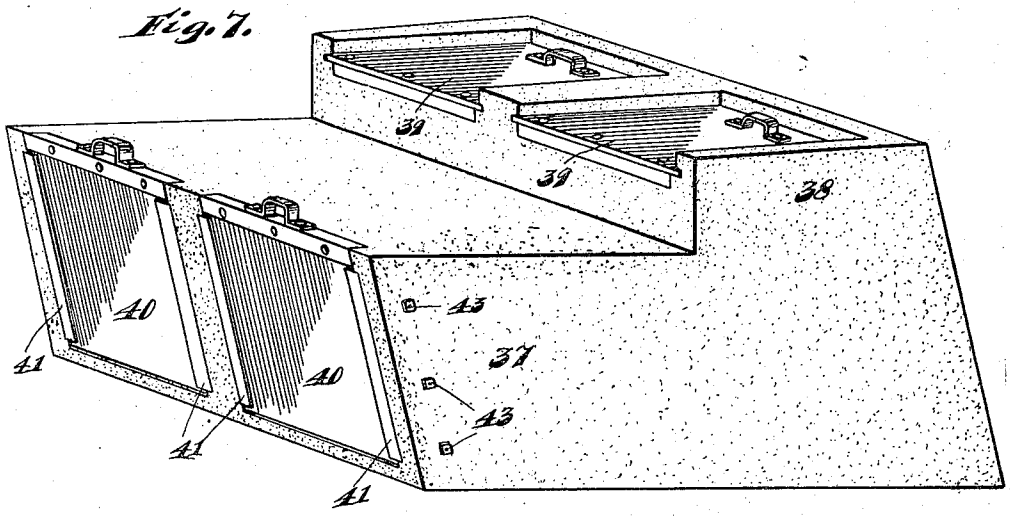


Fig. 8.

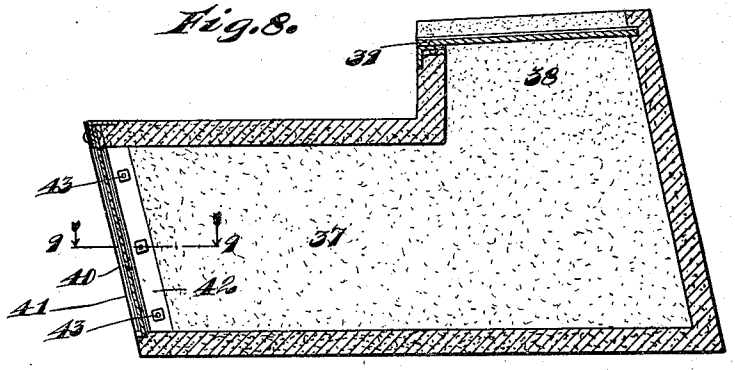
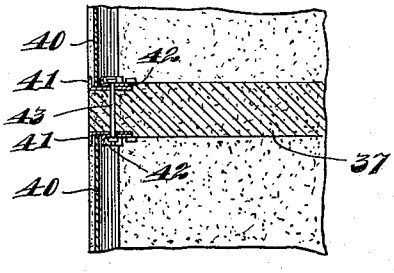


Fig. 9.



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4 SHEETS—SHEET 4.

Fig. 10.

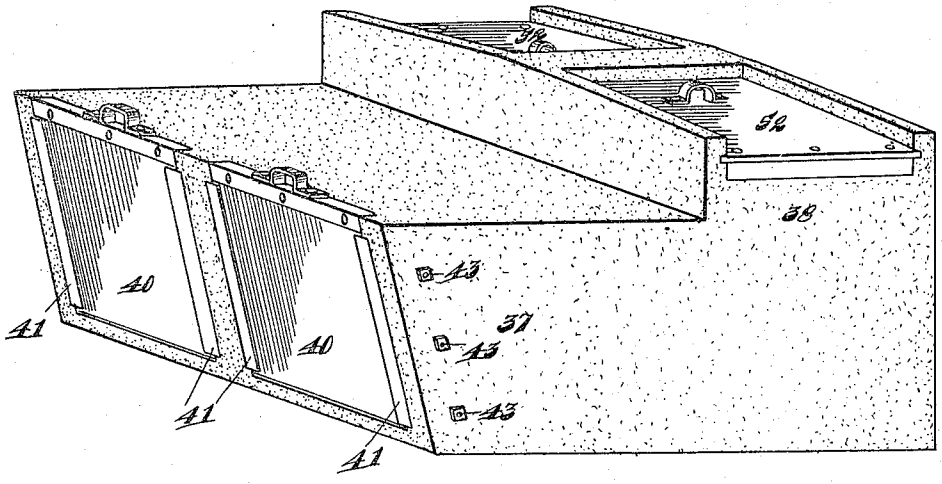


Fig. 11.

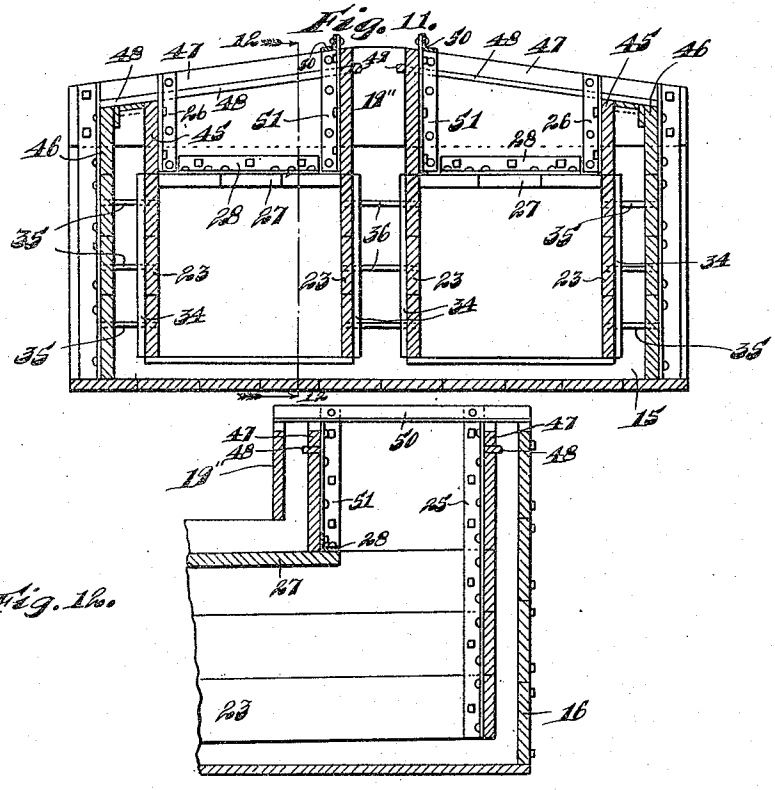


Fig. 12.

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UNITED STATES PATENT OFFICE.

FREDERICK HARPER, OF CHICAGO, ILLINOIS.

MOLD FOR GARBAGE-RECEPTACLES.

1,190,256. Specification of Letters Patent. Patented July 4, 1916.

Application filed March 25, 1916. Serial No. 86,787.

To all whom it may concern:

Be it known that I, FREDERICK HARPER, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Molds for Garbage-Receptacles, of which the following is a specification.

My invention relates to improvements in garbage receptacles and forms for making the same, and has for its object the provision of an improved construction of this character which is capable of producing receptacles of this character economically and of great efficiency.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which, Figure 1 is a vertical longitudinal section of a form made in accordance with the invention, Fig. 2, a top plan view of the same, Fig. 3, a transverse section taken on line 3—3 of Fig. 1, Fig. 4, a front view of the construction, Fig. 5, a central transverse section of a modified form of construction, said section being taken on line 5—5 of Fig. 6, Fig. 6, a top plan view corresponding with Fig. 5, Fig. 7, a perspective view of the receptacle made in the form illustrated in Figs. 1, 2, 3 and 4, Fig. 8, a longitudinal section of said receptacle, Fig. 9, an enlarged section taken on line 9—9 of Fig. 8, Fig. 10, a perspective view of a slightly modified form of receptacle, Fig. 11, a transverse section of the form used in making the receptacle illustrated in Fig. 10, and Fig. 12, a section taken on line 12—12 of Fig. 11.

The form of construction illustrated in Figs. 1 to 4 inclusive, comprises two side form members 13 each of which is provided at its rear end with a vertical extension 14, as indicated. Front and rear end members 15 and 16 respectively, are secured to the front and rear ends of the side members 13 by means of angle irons 17 and 18, as indicated, the front member 15 extending the full height of the side members at the front of the form and the rear member 16 extending the full height of the side members at the rear of the form. A cross member 19 is extended across the tops of the side members 13 adjacent the front edges of the vertical extensions 14 and notches 20 are provided in the cross members to correspond with door positions, as best indicated in Fig. 4. The uppermost member 19′ of the rear end member 16 is made of a height so that members 19 and 19′ may be substituted for each other to provide a receptacle in which the upper doors slide or open rearwardly instead of forwardly, as will appear more clearly hereinafter. Combined supporting and core strips 21 are arranged with their forward ends in the notches 20 at each side thereof extending rearwardly therefrom, said strips being provided with laterally extending strips 22 adapted to form grooves for the reception of the sliding doors. Two hollow core members are arranged to be positioned within the outer form adjacent each other and are supported at their rear ends by means of the strips 21. Each of these core members comprises a forward horizontal portion 23 closed on the top and two sides, but open at the bottom and provided with a vertical extension 24 closed on all sides but open at both top and bottom, the rear of each of said core members being supported by means of angle irons 25 and 26 from the corresponding strips 21. The top 27 of the horizontal forward portion of each of said core members is supported at the rear by means of an angle iron 28 secured to the corresponding forward wall of the vertical extension of the corresponding core member. A strip 29 is placed along the outer side of the upper rear wall of each core member in registration with the corresponding strips 22 so as to produce notches or recesses in the completed receptacle for the reception of the rear end of a sliding door.

The front of each of the core members is extended through a suitable opening formed in the front wall 15 of the form and secured in position by means of an angle iron 30 at the top and angle irons 31 at the sides, as indicated. Strips 32 and 33 are arranged across the top at the rear of the front wall 15 to provide recesses for the accommodation of doors and strips 34 are arranged along the forward outer sides of each core member for the same purpose. Pins 35 and 36 are positioned between the strips 34 and 17 to form bolt openings in the walls of the receptacle to facilitate the mounting of the door guides.

In use the form is set up as indicated on

some flat surface and concrete placed in the spaces between the outer form members and the core members, access being given through the front ends of the core members for leveling up the bottom of the receptacle, the spaces between the core members being filled with the concrete and the top surfaces of the concrete leveled off with a trowel or otherwise. When the concrete has set the form members are removed and a receptacle in the form illustrated in Fig. 7 will be produced, said receptacle comprising a horizontal forward portion 37 and a vertically extended rear portion 38, two garbage or ash receptacles being formed therein as indicated. Slidable doors 39 are arranged in the notches and recesses formed by the strips 22 and 29, said doors being positioned on a slight forward and downward incline, as indicated. The vertically slidable doors 40 are arranged at the front of the receptacle, one in front of each of the openings therein. The doors 40 are mounted to slide between angle irons 41 and 52 secured in place by means of the bolts 43, as indicated. The front and rear walls of the form are given a forward and upward inclination so that the receptacle also is provided with forwardly and upwardly inclined front and rear walls, such arrangement facilitating the use of the receptacle when turned up on its rear wall.

The modified form of construction, illustrated in Figs. 5 and 6, is arranged to produce two separate and separable receptacles in a single mold and at the same operation, this being rendered possible by the mere insertion of a vertical partition 44 between the core members in the form.

The form of construction illustrated in Figs. 10, 11 and 12 is arranged to provide the top doors opening toward the sides. To effect this the upper side members 45 and 46 of the form and cores are notched to accommodate form strips 47 provided with laterally extending strips 48 for the formation of door notches. A cross member 19″ is arranged across the side members adjacent the forward edges of their vertical extensions, said cross member sloping from the center toward each side, and the rear wall of the form is shaped to correspond. Strips 49 are placed along the upper portions of the adjacent sides of the core members for the formation of recesses for the accommodation of doors and supporting angle irons 50 are extended longitudinally across the cross member 19″ and the rear wall of the form, said angle irons 50 being secured to the upper ends of angle irons 51, as best indicated in Fig. 11. The remainder of the form is the same as before and a receptacle will be produced having laterally slidable doors 52, as indicated.

While I have illustrated and described the preferred forms of construction for carrying my invention into effect, these are capable of variation and modification without departing from the spirit of the invention. I therefore, do not wish to be limited to the precise details of constructions set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A construction of the class described comprising outer side form members having vertically extended portions at their rear ends; front and rear end form members cooperating with said side members; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions; and a core member within said form members supported on said front and cross members, substantially as described.

2. A construction of the class described comprising outer side form members having vertically extended portions at their rear ends; front and rear end form members cooperating with said side members; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions; and a hollow core member open at the bottom within said form members supported on said front and cross members, there being an opening in said front member giving access to said core member, substantially as described.

3. A construction of the class described comprising outer side form members having vertically extended portions at their rear ends; front and rear end form members cooperating with said side members, said front and rear members being upwardly and forwardly inclined; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions; and a core member within said form members supported on said front and cross members, substantially as described.

4. A construction of the class described comprising outer side form members having vertically extended portions at their rear ends; front and rear end form members cooperating with said side members, said front and rear members being upwardly and forwardly inclined; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions; and a hollow core member open at the bottom within said form members supported on said front and cross members, there being an opening in said front member giving access to said core member, substantially as described.

5. A construction of the class described comprising outer side form members having vertically extended portions at their rear

ends; front and rear end form members cooperating with said side members; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions, said cross member being notched to correspond with a door and being interchangeable with the uppermost part of said rear member; and a core member within said form member supported on said front and cross members, substantially as described.

6. A construction of the class described comprising outer side form members having vertically extended portions at their rear ends; front and rear end form members cooperating with said side members; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions, said cross member being notched to correspond with a door and being interchangeable with the uppermost part of said rear member; and a hollow core member open at the bottom within said form members supported on said front and cross members, there being an opening in said front member giving access to said core member, substantially as described.

7. A construction of the class described comprising outer side form members having vertically extended portions at their rear ends; front and rear end form members cooperating with said side members; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions; and two core members within said form members supported on said front and cross members, substantially as described.

8. A construction of the class described comprising outer side form members having vertically extended portions at their rear ends; front and rear end form members cooperating with said side members; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions; and two hollow core members open at the bottom within said form members supported on said front and cross members, substantially as described.

9. A construction of the class described comprising outer side form members having vertically extended portions at their rear ends; front and rear end form members cooperating with said side members; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions; two core members within said form members supported on said front and cross members; and a central partition between said core members, substantially as described.

10. A construction of the class described comprising outer side form members having vertically extended portions at their rear ends; front and rear end form members cooperating with said side members; a cross form member extending across said side members adjacent the forward ends of said vertically extended portions; two hollow core members open at the bottom within said form members supported on said front and cross members; and a central partition between said core members, substantially as described.

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

FREDERICK HARPER.

Witnesses:
JOSHUA R. H. POTTS,
HELEN F. LILLIS.

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