A. A. SMITH.

RECEPTACLE.

APPLICATION FILED NOV. 2, 1914.

1,185,255.

Patented May 30, 1916.

2 SHEETS—SHEET 1.

Fig. 1

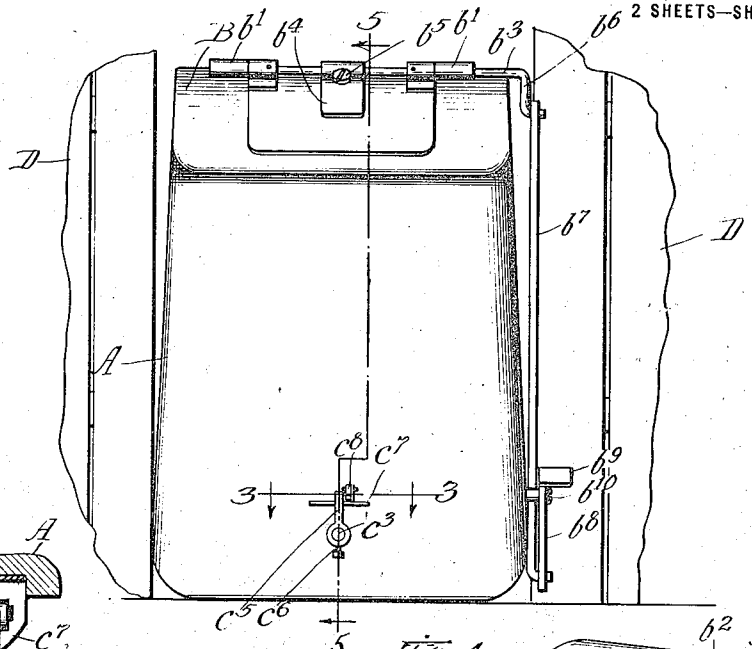


Fig. 3.

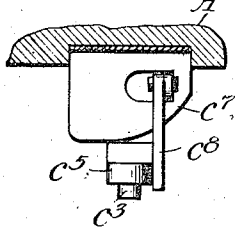


Fig. 4.

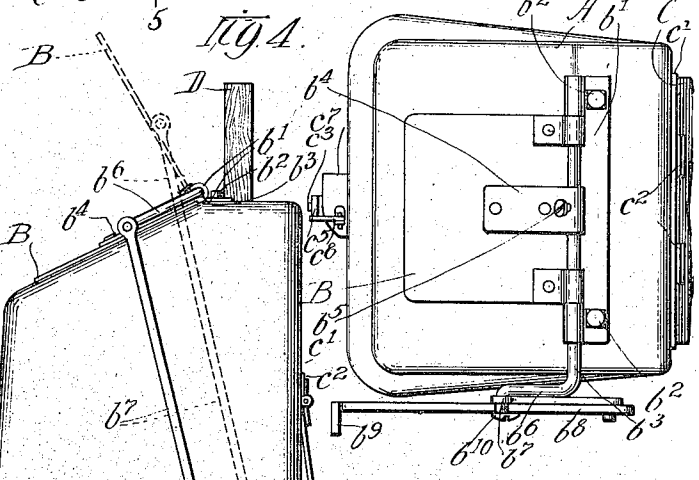


Fig. 2

Witnesses:

Arthur W. Carlson

Robert Stewart

Inventor:

Allan A. Smith

By Arthur F. Durand Atty.

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Fig. 5.

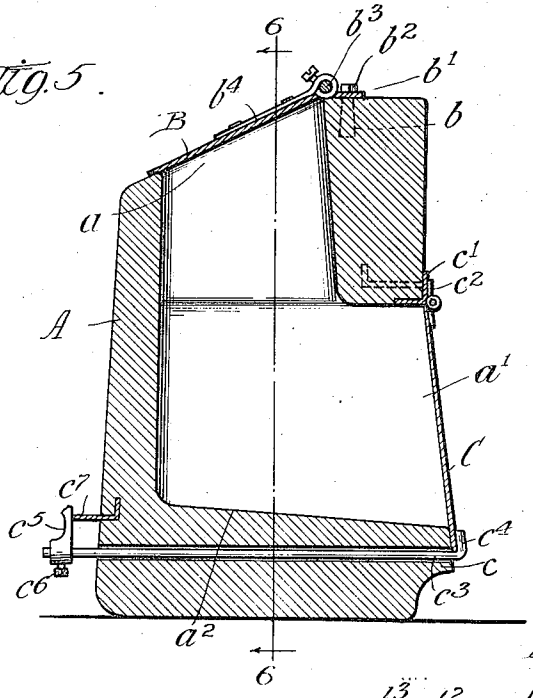


Fig. 6.

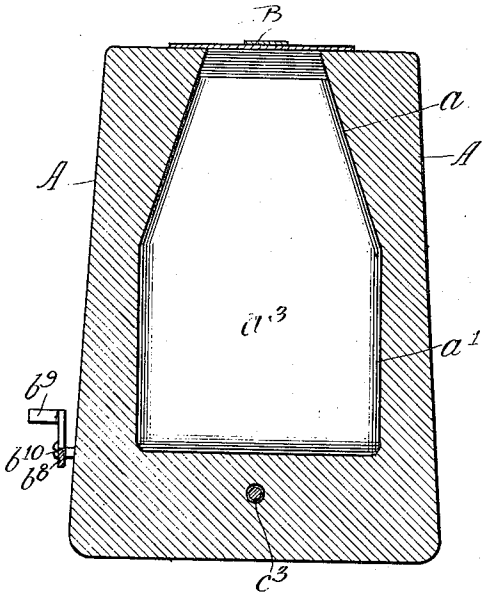
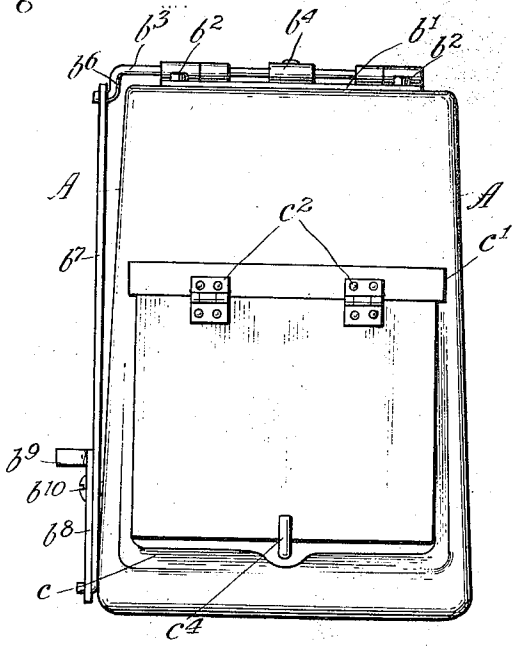


Fig. 7.



Witnesses:

Arthur W. Carlson

Robert H. Weir

Inventor:

Allan A. Smith

By Arthur L. Durand

Atty.

UNITED STATES PATENT OFFICE.

ALLAN A. SMITH, OF CHICAGO, ILLINOIS.

RECEPTACLE.

1,185,255. Specification of Letters Patent. Patented May 30, 1916.

Application filed November 2, 1914. Serial No. 869,731.

To all whom it may concern:

Be it known that I, ALLAN A. SMITH, a citizen of the United States of America, and resident of 12032 Parnell avenue, Chicago, Cook county, Illinois, have invented a certain new and useful Improvement in Receptacles, of which the following is a specification.

My invention relates generally to receptacles for holding garbage, ashes or refuse, or for similar purposes, but more particularly to receptacles of this kind for use out doors, and especially to those which are required to be kept closed and regularly cleaned, such as receptacles employed in cities or districts where the regulations in this respect are strictly enforced for sanitary and other well known reasons.

Objects of my invention are to provide an improved receptacle of this character which will be simple and comparatively inexpensive to manufacture, strong and durable and practically indestructible, convenient to operate, and having certain details and features of construction tending to increase the general efficiency and desirability of a garbage or other receptacle of this particular character.

In the accompanying drawings, Figure 1 is a front elevation of a garbage receptacle embodying the principles of my invention, showing the same disposed in an opening in the fence. Fig. 2 is a side elevation of said receptacle. Fig. 3 is an enlarged detail section on line 3—3 in Fig. 1. Fig. 4 is a view looking down on said receptacle. Fig. 5 is a vertical section on line 5—5 in Fig. 1. Fig. 6 is a vertical section on line 6—6 in Fig. 5. Fig. 7 is a rear elevation of said receptacle.

As thus illustrated, my invention comprises a hollow body A of solid molded cement or concrete. The top of said body has an inlet opening a and the back has an outlet opening a^1, the latter being larger than said inlet. Preferably, the bottom a^2 slopes toward the lower edge of said outlet, so that the receptacle will be self draining. The chamber a^3 tapers upward to the inlet, as shown in Fig. 6; and in this way the contents of said receptacle will not be liable to become jammed or fixed in said chamber, as the said taper tends to prevent this and cause the contents to drop down when the lower portion is removed. As shown, the top of the receptacle slopes toward the front, so that the door B stands at an angle when closed. This door is flat and hinged at its rear and upper edge; and for the purpose of thus hinging the door, threaded studs b are embedded in the top of the body, and a hinge plate b^1 is held in place by nuts b^2 screwed onto said studs. Said plate has a pintle b^3 in the form of a rock shaft, and the door has a hinge member b^4 secured to said pintle by a set screw b^5, whereby the position of the door on the pintle can be adjusted if necessary. The crank arm b^6 on the end of said shaft is connected by a rod b^7 with a lever b^8, which latter has its forward end provided with a foot pedal b^9; and it will be seen that this lever is pivoted at b^{10} to the side of the cement or concrete or other body. Preferably the construction and general arrangement are such that the door B will rise to the position shown in dotted lines in Fig. 2, when the said foot pedal is depressed. In this way the door cannot be opened so far but that it will drop back and close of its own accord when the pedal is released. Thus the top opening of the receptacle can be opened without using either hand, leaving both hands free for other purposes.

The outlet a^1 has a door C which is hinged at its upper edge, the body having an inclined seat c for holding the door in a tilted position when closed. This causes the door to stand at such an angle when closed that its weight tends to keep it pressed tightly against the said seat. A bar c^1 is embedded in the body above the outlet to form a support for the weight above, and to provide a mounting for the door hinges c^2 of said outlet door. A rod c^3 is embedded in the bottom of the body, being provided at its rear end with a bent portion c^4 for engaging and locking the door B in closed position. The forward end of this rod is provided with a crank arm c^5 for rotating the rod to lock and unlock said door. A set screw c^6 is employed for adjustably holding the arm c^5 on the said shaft or rod c^3, and a cam c^7 engages said arm to pull the rod endwise and thereby tighten said door. Said cam, it will be seen, is partially embedded in the front of the body, and is provided with a pivoted latch c^8 for locking the arm c^5 in operative position. Thus the door C cannot be unlocked from the outside of

the fence D in which the receptacle is located. A garbage collector must enter the yard and operate said arm c^5 in order to unlock said door. Said rod or shaft c^3 can be molded in the body and made loose enough to turn by rotating it before the cement hardens.

A receptacle of the foregoing character is strong and practically indestructible. It can be used out doors, without being impaired by the weather, and the natural drainage of the bottom prevents breakage by the freezing of water. As the opening a^1 is as wide as the chamber a^3, it follows that the contents may be easily and readily removed by a shovel. The receptacle is tightly closed when the doors are shut, and at the same time the contents can be readily removed.

As shown, the upwardly tapered passage a is extended upward a distance to elevate the inlet a distance above the ground, whereby the said inlet is a substantial distance above the top of the main lower chamber a^1, thus not only increasing the capacity of the receptacle, but also giving the latter substantial height without danger of clogging in the upper portion thereof. The receptacle can be emptied when filled to the top of the main chamber a^1, and while the contents is some distance below the upper door B, thus guarding against an objectionable overflow. At the same time, however, and even should the receptacle be filled to the extent that the contents would extend upward into the passage a, the upward taper of said passage will tend to prevent clogging, as the materials in this passage will drop downward when the receptacle is cleaned out at the bottom; and, in addition, this tapered formation of said passage will tend to prevent an overflow of the materials should the receptacle be accidentally tipped over on its side. Thus, the receptacle is practically composed of a base section and a top section, the base section containing the main reservoir, and the top section containing an upwardly tapered passage or chamber for feeding the materials downward from the inlet to the said main reservoir.

What I claim as my invention is:—

1. A receptacle for garbage, ashes or refuse, comprising a hollow body having a chamber provided with an inlet opening in the top thereof, an outlet opening in the back of said body, and doors for said openings, means including a foot pedal connected for opening the inlet door, and a lock having provisions to prevent operation thereof by a person at the back of said body and arranged for locking the outlet door, said means and lock being entirely outside of said chamber and operable only at the front of said body.

2. A receptacle for garbage, ashes or refuse, comprising a hollow body provided with an inlet opening in the top thereof, an outlet opening in the back of said body, and doors for said openings, the upper door being disposed a substantial distance above the lower door, said body including a solid molded mass of cementitious material with a main lower chamber therein, and a passage which tapers upwardly from said chamber to said inlet.

3. A receptacle for garbage, ashes or refuse, comprising a hollow body provided with an inlet opening in the top thereof, an outlet opening in the back of said body, which outlet is larger than said inlet and doors for said openings, the upper door being disposed a substantial distance above the lower door, said body including a solid molded mass of cementitious material with a main lower chamber therein, said chamber having a passage tapering upward to said inlet, said outlet being as wide as the lower portion of said chamber, and said chamber having a bottom surface which slopes downward to the lower edge of said outlet.

4. A receptacle for garbage, ashes or refuse, comprising a hollow body provided with an inlet opening in the top thereof, an outlet opening in the back of said body, and doors for said openings, said body including a solid molded mass of cementitious material with a chamber therein, said doors having hinges, and said body having means embedded therein for mounting said hinges, said means including a reinforcing member extending across the back of the body immediately above said outlet, thereby serving also to support the material above said outlet.

5. A receptacle for garbage, ashes or refuse, comprising a hollow body provided with an inlet opening in the top thereof, an outlet opening in the back of said body, and doors for said openings, said back door having an external lock, a connection extending from said lock to the front of the body, and means operable only by a person standing at the front of the body for operating said connection, thereby to preclude access to said receptacle at the back thereof except by first operating said means.

6. A receptacle for garbage, ashes or refuse, comprising a hollow body having a chamber provided with an inlet opening in the top thereof, an outlet opening in the back of said body, and doors for said openings, said body including a solid molded mass of cementitious material with a chamber therein, a rod below said chamber and extending through the bottom of said body, means mounted on the external rear end of said rod to lock said outlet door, and a device for rocking said rod to control said lock, disposed at the front of said body.

7. A receptacle for garbage, ashes or

refuse, comprising a hollow body having a chamber provided with an inlet opening in the top thereof, an outlet opening in the back of said body, and doors for said openings, said body including a solid molded mass of cementitious material with a chamber therein, a rod extending through the bottom of said body, external means mounted on the rear end of said rod to lock the lower edge of said outlet door, and a device for rocking said rod to control said lock, disposed at the front of said body, said body having means for engaging said device to draw the rod endwise.

8. A receptacle for garbage, ashes or refuse, comprising a hollow body having a chamber provided with inlet and outlet openings, a door for the outlet, a rod extending through the body, outside of said chamber, means for locking the door, carried externally on one end of said rod, and means fixed on the other end of the rod to rotate the latter, serving thereby to lock and unlock the door.

9. A receptacle for garbage, ashes or refuse, comprising a body having a chamber provided with an upper inlet and a lower outlet, said body being extended upward a distance above said outlet to elevate said inlet a distance above the ground, the portion of said chamber above said outlet tapering upward to said inlet, thereby to prevent clogging of the materials in the top of said chamber, and said outlet being at the back of the receptacle and larger than said inlet.

10. A receptacle for garbage, ashes or refuse, comprising a body having a chamber provided with an upper front door and a lower back door, and devices entirely outside of said chamber and operable only by a person standing at the front of said body to separately control said doors.

11. A receptacle for garbage, ashes, or refuse, comprising a hollow body having a chamber provided with an inlet opening in the top thereof, an outlet opening in the back of said body, and doors for said openings, said body including a solid molded mass of cementitious material with the chamber therein, a rod below said chamber and extending through the bottom of said body, means mounted on the external rear end of said rod to lock said outlet door, and a device for rocking said rod to control said lock, disposed at the front of said body, having a catch for engaging said device to hold said means in locking position.

12. A receptacle for garbage, ashes or refuse, comprsing a hollow body having a chamber provided with an inlet opening in the top thereof, an outlet opening in the back of said body, and doors for said openings, said body including a solid molded mass of cementitious material with the chamber therein, a rod extending through the bottom of said body, external means mounted on the rear end of said rod to lock the lower edge of said outlet door, and a device for rocking said rod to control said lock, disposed at the front of said body, said body having means consisting of a cam for engaging said device to draw the rod endwise, and said cam having a catch pivoted thereon to hold said device in locking position.

Signed by me at Chicago, Cook county, Illinois, this 9th day of October, 1914.

ALLAN A. SMITH.

Witnesses:

RACHEL J. RICHARDSON,

ROSE E. SEHNEM.