

(No Model.)

W. H. WILLSON.
GARBAGE RECEPTACLE.

No. 540,530.

Patented June 4, 1895.

Fig. 1.

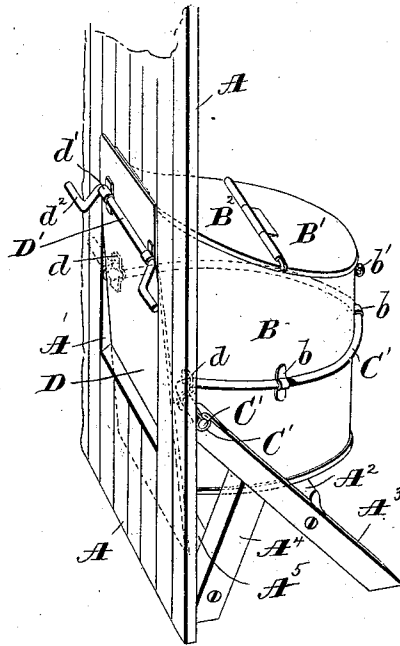


Fig. 2.

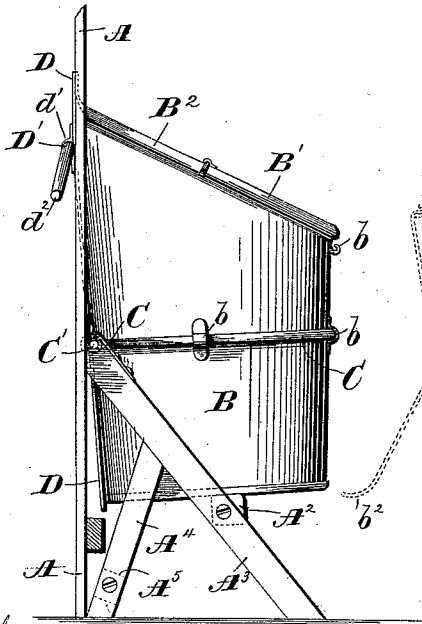
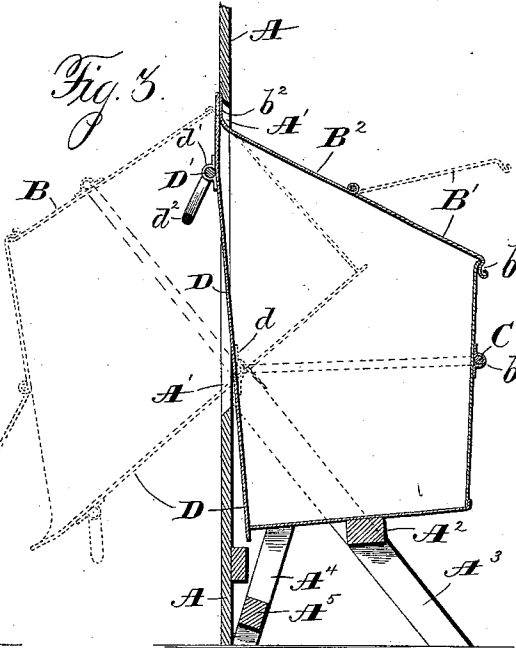


Fig. 3.



Witnesses:
Jas. E. Hutchinson.
Henry C. Hazard.

Inventor.
William H. Willson.
by Prindle & Russell
his Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM H. WILLSON, OF WASHINGTON, DISTRICT OF COLUMBIA.

GARBAGE-RECEPTACLE.

SPECIFICATION forming part of Letters Patent No. 540,530, dated June 4, 1895.

Application filed January 17, 1893. Renewed May 1, 1895. Serial No. 547,809. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. WILLSON, of Washington, District of Columbia, have invented certain new and useful Improvements in Receptacles for Garbage and Refuse; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 shows a perspective view of my improved garbage and refuse receptacle; Fig. 2, a side view of the same with a portion of frame or fence containing the opening through which the receptacle contents are to be discharged broken away, and Fig. 3 a view of a section thereof.

Letters of like name and kind refer to like parts in each of the figures.

The object of my invention has been to provide an improved receptacle for garbage and other refuse, which, while most conveniently arranged for the reception of the material to be put into it, and adapted to keep the latter inclosed tightly, so that any smell or vapor therefrom will be kept from escaping into the air, can be most readily and completely emptied by the garbage collector, with the least possible length of exposure of the interior of the receptacle to the air, and a minimum expenditure of care and time in the opening, emptying, and reclosing of the device.

In the drawings, A designates a frame containing the opening A', through which the garbage or refuse is to be discharged, when desired. Such frame can be part of a fence or wall, where the receptacle contents are to be taken out on the outer side of an inclosure, while the garbage or refuse holding part is to be normally within the latter; or it can be separate from, but placed close to such wall or fence, in proper relation to a suitable discharge opening therein. I also contemplate making the receptacle a portable one, to be free from any wall or fence and be capable of being set and used in any desired place. In such case the frame A can be of any suitable construction, but, preferably, has its bottom or lower edge adapted to rest squarely and firmly upon the ground or other foundation upon which it may be placed. Attached to the inner side of such frame is another frame,

which has a cross bar A² adapted to receive and support the bottom of the can part or holder B, when the latter is down in its normal position. While I do not limit myself to such construction, I prefer to make the latter frame of the form shown, that is, with the two side bars A³ A³, attached to frame A at their upper ends and extending downward and outward therefrom, at an angle, the cross bar A², attached at its opposite ends to such bars, the side bars A⁴ A⁴, attached at their upper ends to bars A³ A³, and extending downward therefrom to the bottom of frame A, where they are screwed or otherwise fastened to the latter, and the cross bar A⁵ connecting the lower portions of the bars A⁴ A⁴ together.

Attached to the entire supporting and holding frame thus made are the journal bearings C C, situated on opposite sides of the opening A', and in such bearings are journaled the opposite ends of the rod C', which, being bent out around the can or holder B, is secured thereto by straps b b or in any other desired way.

With this construction the can or holder, may be tilted, from its normal position resting on cross bar A², out through the opening A' so as to discharge its contents by gravity over the edge of its outer side, well beyond the frame A. In its swing it will be supported by the journaled ends of the rod C', as pivots, which, being situated in or nearly in line with the outer side of the can, cause the dumping movement of the latter to be first upward away from the bar A², and then outward through the opening A'.

With such construction, the opening A', which, when in the fence or wall, it is desirable should be covered or closed, while the receptacle is in its normal condition, need not be much larger than the diameter of the upper part of the can, as its lower edge will be cleared by the latter, even where it is nearly at the height of the bearings for the pivot ends of rod C'. Another advantage of so pivoting the can or holder proper, is that the latter, even when large and deep, may be placed, so as to be conveniently low down, when in its normal position, for receiving garbage or refuse, without making it too low for the free discharge of its contents, by gravity, into the garbage collector's can when it is tilted out-

ward on its pivotal supports. Its movement is then, as indicated, upward and outward, so that its body is raised before the discharging of the contents. The whole weight of the can and its contents acts to normally hold the can bottom down squarely upon bar A^2 and prevent any accidental tipping.

On the top of the can B are two covers or lids B^1 B^2 hinged, at or near the middle of such top. The former covers the inner part of the can top, through which the garbage or refuse is to be put into the can, and is preferably provided with some catch or fastening b^1 , by which it can be normally held closed lightly. The other cover B^2 covering the outer portion of the can top is not provided with such fastenings, but has an upwardly projecting lip b^2 , which, when the can is down in its normal position, is engaged by the frame A at the top of the opening A' , so that such cover is held shut.

With this construction, while cover or lid B^2 is held closed, as long as the can is not tilted, it is, when the tilting for discharging of contents takes place, left free to swing open under pressure of such contents, and does not interfere with their outward passage by gravity. If such lid should tend to stay open, after the can contents have been discharged, it will strike against and be forced shut by the frame at the upper part of the opening A' , as the can is swung back toward its normal position on the inner side of the frame. Neither the garbage collector nor any one else has then to exercise any care or supervision, to see that the can is properly closed up, after its contents have been taken out. The simple pushing or swinging of the can back into its normal position secures this desired and necessary closing.

In order to close the opening A' entirely when the can is not tilted I provide the plate D, which is attached to the front or outer side of the can body, and may be, if desired, made in one piece therewith. This, at its upper end, projects through the opening and laps over the upper edge thereof, on the outer side of the lip b^2 , as shown in the drawings. For steadiness and strength, I prefer to attach this plate near its opposite edges to the can supporting rod c' . Such fastening can be secured by means of the loops or straps d d' attached to the plate and partially inclosing portions of the rod, or otherwise, as desired. On the outer side of the upper portion of plate D, I place a handle D' for convenience in tilting the can. This handle can be of any desired construction, though I prefer to make it of a rod journaled in straps or loops d' d' , and having its ends, beyond the latter, given a double right angled bend to leave parts d^2 d^2 , convenient, as handles, to be grasped by the hand.

My garbage receptacle, as shown and described, is most simple, cheap, and strong in construction; is adapted to bring the can or holder low enough for convenient insertion of

garbage or refuse and high enough, during an emptying operation, to enable the contents to be most conveniently discharged, by gravity, into the collector's can or receptacle; and, because of the automatic opening and closing of the discharge-opening lid, makes unnecessary any care or manipulation, on the part of the collector, beyond what is necessary to tilt the can or holder outward and swing it inward again; and so enables the collection of garbage to be made much more quickly and expeditiously, than where garbage receptacles, as heretofore made with doors or lids that had to be unlocked or unlatched and opened by hand, before a discharging operation, are used. This automatic closing feature is also most advantageous, as it insures, without the necessity of care and watching by any one, that the discharge opening of the can shall always be held securely closed, while the can body is in its normal position.

Having thus described my invention, what I claim is—

1. In a receptacle for garbage or refuse, in combination with a suitable frame and the garbage or refuse holder pivotally supported therefrom, having a discharge opening and a movable lid to close the latter, a stop or bearing to engage a portion of such lid and force the latter shut, as the holder is swung back to its normal position, after being tilted to discharge its contents, and hold it shut while the holder is untilted, substantially as and for the purpose shown.

2. In a receptacle for garbage or refuse, in combination with a suitable frame and the holder pivotally supported thereon, having a discharge opening to allow discharge of its contents, when the holder is tilted, a hinged lid, to close such opening, provided with a lip, and a stop or bearing to engage such lip and hold the lid closed, while the holder is in its normal upright position, substantially as and for the purpose described.

3. In a receptacle for garbage or refuse, in combination with a suitable frame having an opening, the holder pivotally supported on the frame, so as to swing through such opening, and having a passage or opening for the discharge of its contents, a hinged lid on the holder for closing its discharge opening, adapted to be forced shut by the upper side of the frame opening, as the holder is swung toward its normal position, and kept shut by engagement with the frame, while the holder is in said position, substantially as and for the purpose described.

4. In a receptacle for garbage or refuse, in combination, the frame having an opening, the holder pivotally supported so as to be capable of being tilted out through such opening having its upper end open, the two hinged lids, one to close the inner and the other the outer part of the holder top, and a suitable bearing on the frame, to close the outer lid, as the holder is swung toward its normal position, and hold such lid closed, while the holder re-

mains in such position, substantially as and for the purpose described.

5. In a receptacle for garbage or refuse, in combination with a suitable frame having an opening, the holder pivotally supported on the frame, so as to be capable of being tilted through said opening, and having a passage or opening for discharge of its contents, when it is tilted, the swinging lid, for closing the latter opening, having an upwardly projecting portion adapted to engage the frame, at the upper side of the opening in the latter, so that the lid will be kept shut, when the holder is down in its normal receiving position, substantially as and for the purpose shown.

6. In a receptacle for garbage or refuse, in combination with a suitable frame and the holder for receiving the garbage or refuse, a rod bent about and secured to such holder above the bottom thereof, and having its ends in a line at or near one side of the holder journaled in suitable bearings on the frame, substantially as and for the purpose described.

7. In a receptacle for garbage or refuse, in combination with a suitable frame having an opening, the holder for the garbage or refuse pivotally supported upon the frame, so that

it can be tilted through the opening therein, and the opening closing plate moving with the holder, adapted to close the opening in the frame, when the holder is down in its normal position; and overlapping the upper side of the frame opening substantially as and for the purpose shown and described.

8. In a receptacle for garbage or refuse, in combination with a suitable frame having an opening, the holder pivotally supported upon the frame and having a discharge passage or opening, the plate for closing the frame opening attached to the holder, and a hinged lid, for closing the discharge passage or opening of the holder, having a projecting lip, and a suitable bearing or stop on the frame, to engage such lip and close the lid, as the holder is swung back, after being tilted to discharge its contents, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of January, 1893.

WILLIAM H. WILLSON.

Witnesses:

JAS. E. HUTCHINSON,
HENRY C. HAZARD.