July 10, 1928. 1,677,048

M. PFEFFER

SANITARY REFUSE CAN

Filed April 1, 1927

Fig. 1.

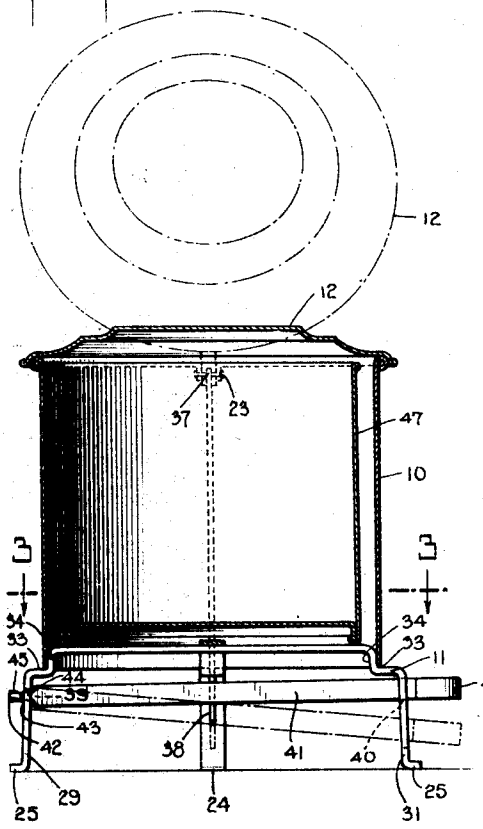


Fig. 2.

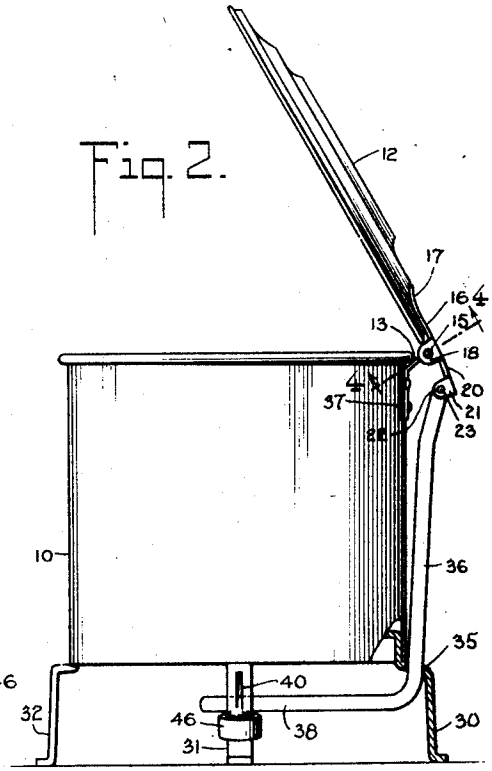
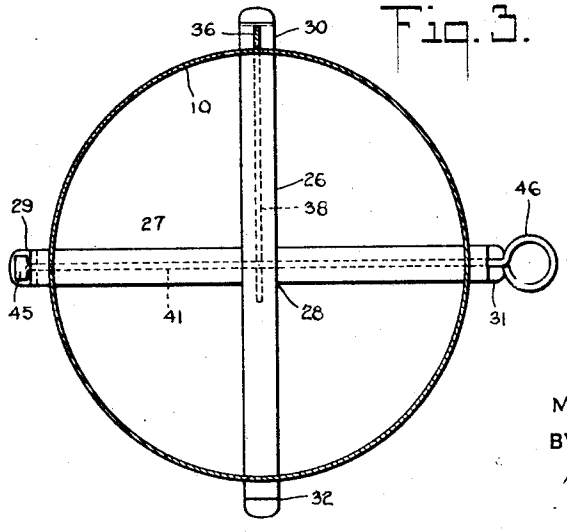


Fig. 3.



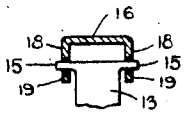


Fig. 4.

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UNITED STATES PATENT OFFICE.

MORRIS PFEFFER, OF NEW YORK, N. Y., ASSIGNOR TO ENTERPRISE TINWARE COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

SANITARY REFUSE CAN.

Application filed April 1, 1927. Serial No. 180,093.

This invention relates to a refuse receptacle and more particularly to a manually operable lid controlled refuse can storage device or similar storage device.

My invention has for an object thereof the provision of a storage device for refuse or the like having associated therewith a closure member or lid capable of being moved for opening and closing by a foot controlled contrivance or other similar pressure without direct handling of the lid or closure member.

My invention still further has for an object thereof the provision of a refuse receptacle having associated therewith a hinged closure member or lid and means associated with said closure member or lid for opening the same without hand contact therewith by including a manually operable foot controlled lever member for transmitting movement to the closure member or lid for opening and closing the same in respect to the receptacle. My invention still further resides in the provision of a refuse receptacle including a closure member or lid therefor and means for moving said closure member or lid by the application of pressure, such as by the foot of the operator, the receptacle and the means for moving the closure member or lid involving simplicity of construction, with a consequent low cost of production resulting from production of the parts from metal stampings, bent metal straps of substantially standard size and form of design, the parts permitting of quick and simple assembly from the component parts constituting the construction.

It is still further contemplated to provide a refuse receptacle and a manually operable closure member or lid therefor in hinged relation and a base for the receptacle serving as the means to mount motion transmitting levers for the closure member or lid having bearings and guides in said base, economy and low cost of production being effected by simplicity of design and construction, at the same time providing structure permitting facile and quick assembly without special tools, jigs or the like.

To attain these objects and such further objects as may appear herein or be hereinafter pointed out, I make reference to the accompanying drawing forming part hereof in which:

Figure 1 is a section of a front elevation of my device;

Figure 2 is a side elevation thereof, portions thereof broken away and in section;

Figure 3 is a section on a line 3—3 of Figure 1;

Figure 4 is a broken section taken on a line 4—4 of Figure 2.

Making reference to the drawings, it will be observed that my device comprises generally a main housing or receptacle 10, mounted upon a base 11 and provided with a closure or lid 12, hingedly connected to the housing. A hinged connection is obtained by the bracket 13 being connected to the body 10 by rivets 14, or other suitable connections, such as spot welding, solder or the like. The bracket 13 is formed with pintle members 15, which engage the arm 16 attached to the lid at 17 in the lugs 18 through the orifices 19 therein provided. The arm 16 has an extension portion 20, the end thereof having downwardly formed ears or lugs 21 and orifices 22 through which is passed a pin 23. The housing 10 is mounted on a base 11, the latter comprising straps 24 and 25 in the form of substantially inverted U-shaped members having the bases thereof 26 and 27 intersecting and contacting at 28, with the legs 29, 30, 31 and 32 at right angles to each other. The upper portions of the straps 24 and 25 are provided with offset portions 33, serving as brace members for the bottom of the housing 10, which engages the upwardly disposed portion 34.

The leg 30 is provided with a guiding slot 35, through which projects the strap 36. This strap is in the form of a right angularly bent member, having one end thereof 37 connected to the pin 23, previously described. The opposite member 38 is disposed radially below the housing 10, substantially directly under the straps 26 and 27 at their point of intersection 28. The legs 29 and 31 are formed with a pivotal slot 39 and guide slot 40, respectively, the latter slot being formed for substantially the full length of the leg 31. Disposed between the legs 29 and 31, I provide a foot pressure lever 41. One end 42 of this lever is arranged to be inserted

in the slot 39 for pivotal mounting. For this purpose the end 42 is provided with cut out portions 43, forming shoulders 44 and an enlarged head 45. For positioning the foot pressure lever, the end 42 is first passed through the guide slot 40 and then through the slot 39 until the shoulders 44 substantially abut the sides of the slot 39.

At this time the enlarged head 45 is given a turn substantially at right angles to the strap, disposing the enlarged head 45 across the slot 39 to prevent withdrawal of the head through the slot 39. It will be observed that in positioning the lever 41, it is disposed to ride upon the arm 38 of the strap 36. The lever 41 may have one end thereof provided with a foot pressure bearing pedal 46 in the form of a loop.

It will be observed that the lever 41 may pivot within the limits of the slot 40, as shown in dotted position in Figure 1. With the lid 12 closed as shown in Figure 1, the strap 36 has its arm 38 disposed to hold the lever 41 at the upper position. Upon application of pressure to the end 46, as by placing the foot thereon, and continuing the pressure downwardly, this will carry the arm 38 therewith, transmitting movement to the extension portion 20 serving to lift the lid 12 to the open position, by pivotal movement upon the pins 15. It will be observed that the connection of the strap 36 to the end of the extension member 20 is such as to always maintain the lid in an unbalanced position. Upon the release of the pressure upon the pedal 46, the lid 12 will gravitate back to the closed position.

It will be observed that though the housing 10 may serve as the receptacle proper, if a bottom therefor is provided it is preferred to provide a movable receptacle 47, such as the usual waste paper basket or garbage can, disposed within the housing 10 as shown in Figure 1. This facilitates the ready removal of the material therein stored or deposited, such as refuse, without moving the heavier housing assembly, or where a plurality of receptacles 47 are available, the completely filled receptacle may have replaced therefor an empty one. Thus, also, that portion of the device which is soiled or becomes worn by reason of the material stored therein may be replaced without entailing the loss of the entire housing assembly.

It will also be observed that by the construction shown I have provided a device which serves its intended function, yet is particularly novel by reason of the simplicity thereof in the arrangement of parts as well as the form thereof, permitting their manufacture from simple metal stampings and standard sheet metal in the form of straps.

It will also be observed that portions of the assembly such as particularly the base and operating means for moving the lid may be made of metal, whereas other portions thereof, such as the housing or inner receptacle 47, may involve the use of such material as fibre, pressed board or the like.

Having thus described my invention and illustrated its use, what I claim as new and desire to secure by Letters Patent, is—

1. A receptacle comprising a housing, a closure hinged adjacent to the perimeter of the housing and provided with an arm extending beyond the fulcrum, a lever fulcrumed beneath and extending diametrically beyond the housing to oscillate in a plane substantially perpendicular to the plane of the hinging of the closure, a bar pivoted to the extension of the closure and provided with a substantially right angular bend extending under the housing and supporting the lever.

2. A receptacle comprising a housing, a closure hinged adjacent to the perimeter of the housing and provided with an arm extending beyond the fulcrum, a lever fulcrumed at and under one side of the housing and extending beneath the housing and beyond the housing upon the diametrically opposite side to oscillate in a plane substantially perpendicular to the plane of hinging of the closure, and a bar pivoted to the extension of the closure and provided with a right angular bend extending under the housing and supporting the lever.

3. A receptacle comprising a housing, a closure hinged to the housing, an arm extending from the closure beyond the hinge and the perimeter of the housing, legs supporting the housing, one of which is formed with a slotted, horizontal offset, and an L-shaped bar passing through the slot with one end pivoted to the arm and the other passing beneath the housing and providing means for the application of stress.

4. A receptacle comprising a housing, a closure hinged to the housing, an arm extending from the closure beyond the hinge and the perimeter of the housing, legs supporting the housing, one of which is formed with a slotted, horizontal offset, and an L-shaped bar passing through the slot with one end extending along adjacent the housing and pivoted to the arm and the other passing beneath the housing and providing means for the application of stress.

In witness whereof I have signed this specification.

MORRIS PFEFFER.