H. H. JONES.

GARBAGE RECEPTACLE.

APPLICATION FILED SEPT. 29, 1913.

1,126,640. Patented Jan. 26, 1915.

Fig. 1.

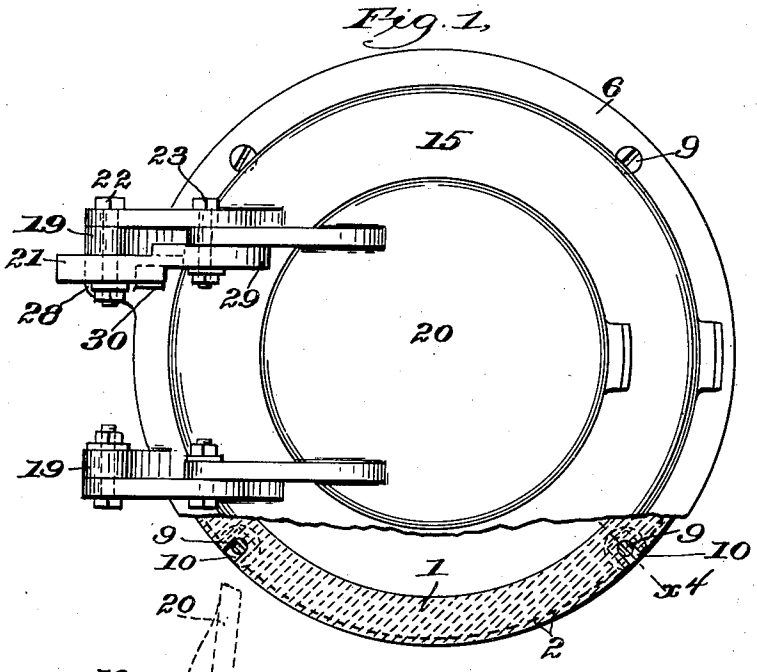


Fig. 2.

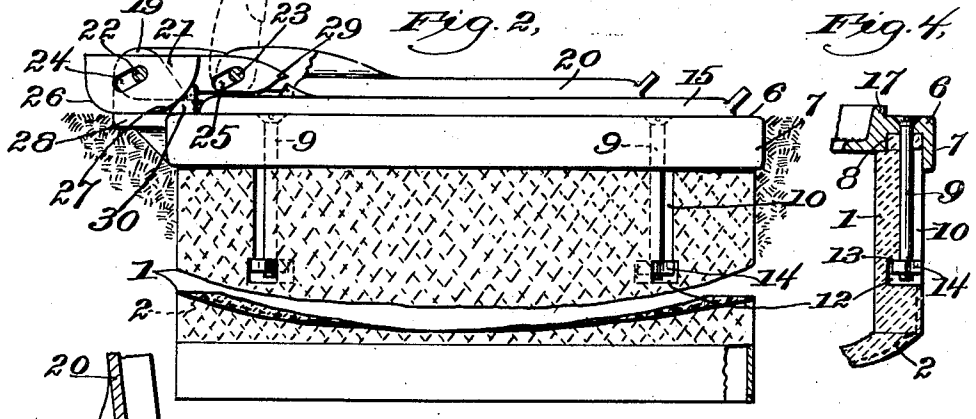
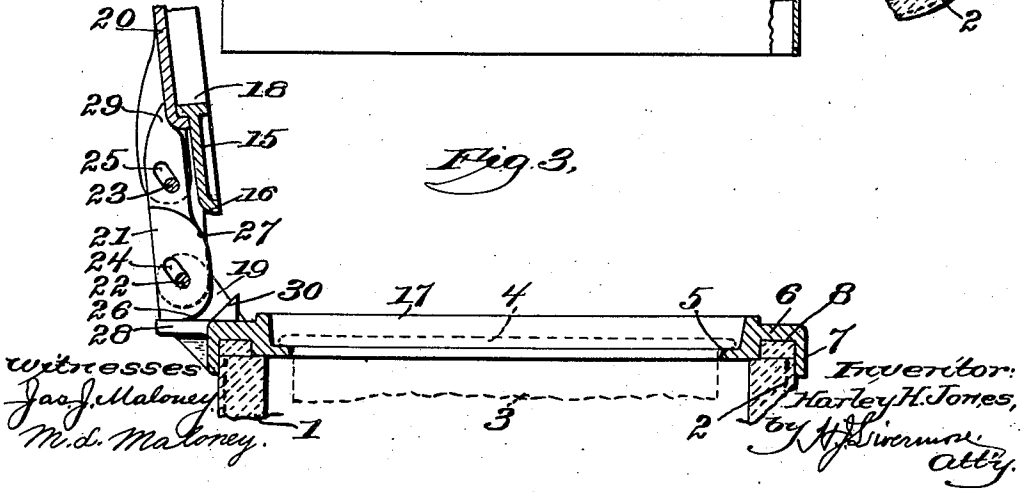


Fig. 4.

Fig. 3.



Witnesses:
Jas. J. Maloney
M. L. Maloney.

Inventor:
Harley H. Jones,
by H. J. Sievers
Atty.

UNITED STATES PATENT OFFICE.

HARLEY H. JONES, OF MEDFORD, MASSACHUSETTS.

GARBAGE-RECEPTACLE.

1,126,640. Specification of Letters Patent. Patented Jan. 26, 1915.

Application filed September 29, 1913. Serial No. 792,258.

To all whom it may concern:

Be it known that I, HARLEY H. JONES, a citizen of the United States, residing in Medford, in the county of Middlesex and State of Massachusetts, (whose post-office address is 53 Front street, Charlestown, Massachusetts,) have invented an Improvement in Garbage-Receptacles, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

The present invention relates to a garbage receptacle and is embodied in what is known as an under-ground garbage receptacle, in which a removable receiving can is contained in a casing which is permanently embedded in the ground; the said casing having a cover of its own which incloses the receptacle, there being also a service cover which can be opened independently of the main cover when the garbage is to be deposited.

The permanently embedded portion of the device embodying the invention is composed of a tube made of cement and the main feature of novelty of the invention consists in the means for attaching the compound cover to the upper end of the cement tube, so that all the parts are securely fastened together; making a solid and durable structure.

The invention further relates to certain novel details of construction and arrangement of the covers so that each can be operated independently of the other without trouble. This feature of the invention consists mainly of a novel locking device whereby the service cover will be held in its closed position with relation to the main cover when the latter is lifted for the purpose of removing the movable garbage receptacle.

Figure 1 is a top plan view of a receptacle embodying the invention, parts being broken away and shown in horizontal section; Fig. 2 is a side elevation partly in section, showing the receptacle as embedded in the ground; Fig. 3 is a transverse vertical section of the upper portion of the device showing the main cover open; and Fig. 4 is a vertical sectional detail on the line X^4 of Fig. 1.

In accordance with the invention the permanent outer casing which is to be embedded in the ground consists of a tube 1 made of molded cement in which is preferably embedded a reinforcing wire netting 2, it being unnecessary to cover the lower end of the tube, since there is no need of any covering for the ground at the bottom of the hole. The removable receptacle consists of a pail 3, indicated in dotted lines in Fig. 3, the said pail having a flange 4 around the top, which is supported on an annular shoulder 5 which is part of a cover support 6. In accordance with the invention the said cover support 6 is adapted to rest upon the top of the tube or casing, and is provided with a downwardly projecting flange 7 which fits around the outside of said tube. The cover support is open at the middle to receive the removable receptacle 3 and is provided along its under surface with an annular recess 8, the width of which is less than the thickness of the body portion of the tube 1. The said cover support is secured to the body portion by means of bolts or screws 9 which are adapted to be embedded in or secured to the body portion 1.

In the construction shown, the body portion 1 is provided with lateral recesses 10 each having an undercut portion 12 to form an engaging shoulder 13, for a nut 14, adapted to be engaged by a bolt 9. As an additional means for securing the cover support 6 to the body 1, the recess or channel 8 is filled, before the parts are put together, with unhardened cement which after hardening becomes a homogeneous part of the body portion 1, as well as permanently adhering to the metal with which it is in contact.

The structure is strong and durable, the main cement portion not being affected by the moisture of the ground, while the cover support is firmly and permanently secured to the cement portion, making a single unit.

In accordance with the invention, the main cover 15, as best shown in Fig. 3, is provided with an annular flange 16 which fits over and surrounds an upwardly projecting annular portion 17 of the cover support 6 so that when the said main cover is closed, a tight seal is afforded. The said main cover 15 is provided with a circular opening 18 which is smaller than the removable receptacle 3, so that the said receptacle can not be removed without lifting the main cover 15, which is hinged or pivoted in lugs 19 forming part of the cover support 6.

For convenience in depositing the garbage, from time to time, the service cover 20 is employed, the said service cover being hinged to the main cover so that it can be lifted independently thereof. In the construction shown the service cover 20 is so arranged that it cannot be lifted wholly to a vertical position; so that if left to itself it will fall to a closed position. It is therefore, impossible to leave the receptacle open except when the main cover 15 is lifted. When, however, the main cover is lifted for the removal of the receptacle 3, it is desirable that the service cover should be held from independent movement, and for this purpose the covers are arranged to be automatically locked together when the main cover has been lifted. For this purpose, the covers are provided with a locking device 21 which is shown as longitudinally movable with relation to the pivot supports 22 and 23 to which the covers are respectively hinged. The longitudinal movement is brought about through the agency of curved or cam shaped surfaces 26 and 27 formed on the under surface of the locking device; and in such movement the locking device is guided with relation to the covers by means of inclined slots 24 and 25 engaged respectively by the hinge pivots 22 and 23. When the service cover 20 is lifted, the locking device 21 is not moved, but when the main cover 15 is lifted the pivot 23, which is connected to the main cover, lifts the front end of the locking device causing the cam surface 26 to ride along the flat surface of a projection 28 thus moving the locking device from the position shown in Fig. 2 to the position shown in Fig. 3. This movement causes a projecting portion or nose 29 of the locking device to move over and engage the back portion of the service cover 20 thus preventing the same from turning on its pivot 23 and holding the covers together as shown in Fig. 3. When the main cover 15 is closed the cam surface 27 comes in contact with an inclined shoulder 30 which projects upwardly from the cover support, thus moving the locking device back to the position shown in Figs. 1 and 2, and leaving the service cover free to be opened, as indicated by the dotted lines in Fig. 2.

What I claim is:

1. A garbage receptacle comprising an outer casing adapted to be embedded in the ground; a cover support secured to the top of said outer casing; a removable receptacle adapted to be supported by said cover support; a main cover hinged on said cover support and adapted to inclose the removable receptacle; a service cover hinged on said main cover, a locking device extending from the service cover hinge to the main cover hinge and adapted to hold said service cover in its closed position with relation to the main cover when the main cover is raised; and means for operating said locking device in response to the movement of said main cover on its pivotal support.

2. A garbage receptacle comprising an outer casing provided at the top with an annular cover support; a main cover hinge on said annular support; a service cover hinge on the main cover; a longitudinally movable locking device extending from the main cover hinge to the service cover hinge and having longitudinal slots coöperating with the hinge pintles respectively to admit of such longitudinal movement; cam surfaces formed on the under side of said locking device, one of said cam surfaces being adapted to engage the upper surface of the cover support to move said locking device in one direction when the cover is lifted and the other cam surface being adapted to engage a projection from the cover support to move the locking device in the opposite direction when the main cover is closed; and a projecting portion forming part of said locking device and adapted to be extended over the service cover to lock the same closed when the main cover is open.

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

HARLEY H. JONES.

Witnesses:

JAS. J. MALONEY,

MARY L. MALONEY.