# Nov. 18, 1924.

RECEPTACLE Filed May 14, 1921

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Fig.1<sup>c</sup>

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# Inventor. Walter D. Banes, Mo Bioz dale Ti i Attorney.

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Attorney.

### Patented Nov. 18, 1924.

### STATES PATENT OFFICE. UNITED

WALTER D. BANES, OF GERMANTOWN, PENNSYLVANIA, ASSIGNOR TO GENERAL PRESSED METAL COMPANY, A CORPORATION OF PENNSYLVANIA.

RECEPTACLE.

Application filed May 14, 1921. Serial No. 469,549.

jacent parts, showing the bail-controlling To all whom it may concern: Be it known that I, WALTER D. BANES, means.

a citizen of the United States, residing at Germantown, in the county of Philadel-5 phia, State of Pennsylvania, have invented a new and useful Receptacle, of which the following is a specification.

My invention relates to improvements in receptacles. The object is to provide means 10 for actuating and controlling the cover thereof.

The invention comprises self-containing means for actuating the cover and for maintaining the same in the open position by 15 a foot operated pedal.

The invention comprises means whereby the cover may be removed from the receptacle and from the actuating device. and may be replaced upon the receptacle, and in device, without disturbing any of the parts thereof.

Fig. 2 is a top plan view.

Fig. 3 is a fragmentary detail on an enlarged scale in part section and part eleva- 60 tion, showing part of the actuating mechanısm.

1,515,989

Fig. 4 is a similar view showing the parts in different position.

Fig. 5 is a fragmentary elevation of the 65 same structure.

Similar numerals refer to similar parts throughout the several views.

In the example shown in Fig. 1, the receptacle 6 is the standard type of sheet iron 70. garbage can. The lid or cover 7 is provided with the substantial downwardly extending flange 8 which extends below and surrounds the top of the receptacle 6. This cover 7 is 20 operative relationship with the actuating provided with the usual handle 9 for manual 75 operation. The bail 10 is attached in the usual way to the sides of the receptacle for The invention comprises means whereby convenient transportation. This bail 10 is the cover is clamped by the actuating de- provided with the offset portion 10', so 25 vice in the opening actuation thereof and shaped that when in the elevated position it 80 whereby the opening movement is limited. serves to lock the cover on the receptacle, as shown in Fig. 1<sup>a</sup>. Upon suitable pivots 11, oppositely disposed near the rear and lower part of the receptacle 6, is mounted the annular lever 85 fit upon and be lifted from the top of the 12, preferably made of a single strip of metal brought together at the front of the receptacle and secured near its two ends, as whereby the cover is locked in closed posi- by the rivet 13; beyond the rivet 13 projects the V-shaped formation 14 which com- 90 whereby the locking device, such as the bail, prises the pedal. At the rear of the recepis moved into and out of locking position tacle, that is, at the left hand side of the drawing Fig. 1, being opposite to the pedal side of the receptacle, is provided a recess or slot 15 in the lower edge of lever 12. 95 To the upper wall of the same side of the receptacle is provided or secured, in any Referring to the drawings, which illus- suitable way, as for example by the rivets clined parallel wings 18. To the upper 100 outer ends of these wings 18 is pivoted, as at 19, the member 20. This member 20 comprises the upwardly extending wall 21 tical slots or recesses 23 cut in the wings 22 105 adjacent the wall 21. These slots are provided to receive the flange 8 of cover 7. In the initial position of member 20, the wall 21 is adapted to be parallel with the ver-

The invention comprises means whereby the actuating device permits certain play in its movements to facilitate the automatic 30 shifting of the cover so that it may readily receptacle.

The invention comprises improved means 35 tion upon the receptacle, and also means without engaging or contacting with the cover.

The invention also comprises improve-40 ments in details of construction and method of assembly.

trate merely by way of example suitable 16, the bracket 17, having the upwardly in-45 means for effecting my invention:---Fig. 1 is a side elevation of a receptacle equipped with my improved cover actuating and controlling device. Fig. 1<sup>a</sup> is a view on a reduced scale to and the two parallel wings 22, having ver-50 show the bail in locking position. Fig. 1<sup>b</sup> is a similar partial view showing the bail moved into the disengaging and unlocking position. Fig. 1° is a detail in part section and part 55 elevation of a portion of the bail and ad- tical wall of the receptacle. In this posi- 110

tion of the parts, the cover 7 may be arbi- more of the holes receiving the pivot 31 trarily moved to or from the receptacle 6, slightly larger in diameter than said pivot, the flange 8 freely moving into and out of as indicated by dotted line in Figs.  $\overline{3}$  and the pivot 19, are sufficiently enlarged or flange 8 of cover 7 is curved in an arc corelongated to permit limited play of mem- responding to the curve of said flange 8. ber 20 on pivot 19 in addition to its purely The vertical wall 21 of member 20 is also pivotal movement.

1,515,989

movement of the bar 26 is to cause the ac- or other projection 35 connected with the tuation of member 20, which, due to the body of the bracket member 17. arrangement of pivot 19 and slot 24, is upwardly and slightly to the right. This handle or bail 10 is so bent that when in <sup>15</sup> slightly lateral movement of member 20 the elevated position the offset portions 10' 80 serves to push the cover 7 forwardly so that the flange 8 will clear the front edge of the receptacle at the commencement of the opening movement of the cover. The relative positions of pivot 19 in slot or hole 24 are shown in Figs. 3 and 4 respectively as the cover is moved from the closed to the open position. At suitable points between the pivot 19 and the slot 23 are provided openings in wings 22 of member 20 to receive the pin or shaft 25. To this shaft 25 is pivotally connected the vertically extending rod 26, which is recessed at its lower end, as at 27,  $^{30}$  to receive a portion of the annular lever 12. This rod 26 is provided with a hook shaped formation 28 which engages in the slot 15 of lever 12, and a finally upwardly extending end or lug 29, which is adapted to en-<sup>36</sup> gage the inner margin of lever 12, so that after the rod 26 has been assembled with lever 12 and then secured by the shaft 25, as shown especially in Figs. 3 and 4, the same is prevented from becoming disengaged from said member 12, and at the same time, due to the flaring shape of the inner wall 30 of recess 27, the rod 26 is permitted a rocking movement with respect to said lever 12. Beyond and above the shaft or pivot 25, short distance, as clearly shown in Figs. 3 and 4. Near the outer free end of rod 26 is pivotally secured, as at 31, the clamping member 32. This clamping member 32 the pivot 31 engaging in the rod 26. Member 32 is also provided with wings 32' at its two ends, at right angles with its general extension. These wings have a loose

the slot or recess 23. It will also be noted 4. It might also be noted that the surface 5 that the slots or holes 24, in which engage of the member 32 which faces the rim or 70 correspondingly curved. A spring 34 is By this arrangement, the first upward provided between the pin 25 and a hook 75 As indicated in Figs. 1<sup>a</sup>, 1<sup>b</sup> and 1<sup>c</sup>, the overlie the top of cover 7 and prevent its accidental displacement. The bail 10 is provided with the loops 36 which engage the pins 37. These pins 37 project from the plate 38 secured to the receptacle 6 in any 85 suitable way, as for example by means of the rivets 39. The plate 38 is provided with the lug or hook 40, having the end 41 adapted to project over the end of pin 37 to prevent the displacement or disengagement of 90 the bail loop therefrom. In assembling my device the plate 38 is formed and secured to the receptacle with the lug or hook 40 formed and projecting as shown in dotted lines Fig. 1°, that is with the end 41 spaced 95 away from the end of pin 37. After the loop 36 of bail 10 is passed over the pin 37 the lug 40 is bent into the position shown

in solid lines.

Plate 38 is also provided at its upper side 100 with the inclined wings 42. These wings are provided with the oppositely inclined converging margins 43 and 44 adapted to engage the bail as it is moved into and out of the locking position, for the purpose to 105 be described in connection with the operation.

In operation: Figs. 1 and 3 show the mechanism in the initial position with the 45 rod 26 inclines or projects outwardly for a lid or cover in the closed position upon the 110 receptacle. The flange 8 of the cover projects downwardly into the slots 23 of member 20. The bail is then brought below and free from the cover when the receptacle 50 is provided with the lugs 33 which receive has been placed in required position. Up-115 on depressing the pedal 14, the opposite end of the lever 12 is elevated, carrying the rod 26 upwardly. This moves the member 20 first forward and then in an upward direc-55 fit between wings 22 of member 20. The tion, that is in the counterclockwise direc- 120 pivotal engagement of member 32 with rod tion about the pivot 19. The flange 8 of 26 is a loose engagement. The limit of the the lid 7 being engaged in the slots 23, pivotal movement is due to the engagement the lid is first given a slight forward moof the opposite sides or edges of member tion, that is toward the front of the re-60 32 with the margin of the rod 26. The ceptacle, so that the flange will clear the 125 rocking or limited universal movement, top of the receptacle in moving from and other than pivotal movement, is secured by returning to the top thereof. It is then spacing the lugs 33 at a slightly greater tilted correspondingly and is carried into distance than the thickness of the rod 26 the position indicated in Fig. 4; meanwhile 65 and by having, as above indicated, one or the said flange 8 is engaged by the clanap- 180

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31. In the final open position this clamping same to normal position or contour after plate clamps the rim tightly between said passing the wings 42 in either direction. member  $3\overline{2}$  and the wall  $2\overline{1}$ , as shown in  $\overline{\phantom{1}}$  This operation of the bail is desirable 5 Fig. 4 and since the rod 26 only has a limit- in order to prevent the bail from scraping 70 ed upward movement, and since the mem- the cover and thus eventually wearing away ber 32 has only a limited pivotal movement the paint or galvanized coating, and thus with respect to said rod 26, it follows that produce surfaces that would have a tendthere is a position in which these several ency to rust. This means also reduces 10 members come to a stop with the lid firm- the danger of the bail displacing the cover 75 lid is held in such final open position as locking position. long as the lever 14 is kept depressed. It The provision thus described for locking should also be noted that the annular lever the cover by means of the bail, is especially 15 12 is so formed that it has a certain amount useful, not only for preventing accidental 80 of resilience so that a slight movement of displacement of the cover, but also for prethe lever is permitted, after the lid has venting dogs or other prowling animals reached the final open position, without from dislodging the same. danger of breaking or straining the parts. What I claim is:---20 By this method of operating the lid, the 1. In combination with a receptacle, a hands of the operator are left free to clean cover therefor, having a flange adapted to and discharge the contents of utensils into surround the upper portion of the side wall the receptacle. Upon the release of the pedal 14, the 25 spring 34 operates to draw the pin or shaft 25 downwardly, which consequently results in the downward movement of rod 26 and the downward movement of lever 12 to the left of pivots 11. This results in the return 30 of the clamping member 32 and the wall 21 with its adjacent slot, and consequently the cover of the receptacle to initial position. As before stated, the enlarged dimension of the slots or holes 24 in wings 22, permits 35 an automatic adjustment of the several parts to facilitate the cover finding its seat readily over the receptacle 6 and conversely permits the cover to adjust itself so as readily to lift away from receptacle 6. ed to the receptacle for actuating the cover, 40 from plates 38, having the inclined engag- the cover may be moved entirely from the ing edges 43 and 44, is to engage the bail receptacle and free from said actuating 10 as it is moved into and out of the lock- means and returned to the receptacle and ing position, in order to spread the lower into operative relationship with the actuat-45 extremities of the bail so that the same ing means without any disarrangement 110 will clear the sides or flange of the cover thereof. 7. For example, starting with the bail 10 4. In combination with a receptacle, a in the position shown in Fig. 1 and pulling cover therefor and means pivotally connectit over so as to clear the cover, the sides ed to the receptacle for actuating the cover, 50 engage the inclined surfaces 43 of wings gageable operative relationship with the 42. This causes a spreading of the bail, cover so that the cover may be arbitrarily so that the same will entirely clear the removed from the receptacle.

ing plate or member 32 carried on the pivot metal of the bail is sufficient to return the ly clamped between 32 and 21, and the when raised into the said operative and

85 of the receptacle and a cover actuating member pivotally connected to the receptacle on a horizontal axis and provided with a re-<sup>90</sup> cess for receiving the cover flange to cause its opening and closing movements.

2. In combination with a receptacle, a cover therefor and means pivotally connected to the receptacle for actuating the cover, 95 said actuating means being so formed that the cover may be moved entirely from the receptacle and free from said actuating means and returned to the receptacle and into operative relationship with the actuat-100 ing means without any adjustment thereof. 3. In combination with a receptacle, a cover therefor and means pivotally connect-The purpose of the wings 42, projecting said actuating means being so formed that 105 of the bail below the offset portion will first said actuating means having freely disen-115

sides of the cover, as indicated in Fig. 1<sup>c</sup>. 5. In combination with a receptacle, a This spreading is maintained until the bail cover therefor and means for actuating the 120 55 reaches the inclined portion 44, passing cover including a formation projecting from which it returns to normal position. The the wall of the receptacle, an element loosely operation is similar in the return movement. pivoted thereto provided with a recessed It will be noted from an inspection of Fig. portion for receiving the rim or flange of 1° that the pin 37 is of sufficient length, that the cover, and an actuating lever. 125 is the distance from the face of the plate 38 6. In combination with a receptacle, a to the end 41 of lug 40, is sufficient to per- cover therefor and means for actuating the mit the necessary movement of the loops cover including a formation projecting from 36 on the ends of the bail 10 to allow of the wall of the receptacle, an element loosely 65 the action described. The spring of the pivoted thereto provided with a recessed 130

portion for receiving the rim or flange of oted thereto provided with a recessed por-the cover, and an actuating lever, said means tion for receiving the rim or flange of the arranged and operated to cause a slight pre- cover, an actuating lever, and means for liminary horizontal movement of the cover. clamping the cover to the recessed pivoted 5 7. In combination with a receptacle, a member when in the final open position. cover therefor and means for actuating the 10. In combination with a receptacle, a cover including a formation projecting from cover therefor and means for actuating the the wall of the receptacle, an element loosely cover including a formation projecting from pivoted thereto provided with a recessed the wall of the receptacle, an element piv-10 portion for receiving the rim or flange of oted thereto provided with a recessed por- 40 the cover, and an actuating lever, said means tion for receiving the rim or flange of the arranged and operated to cause a slight pre- cover, an actuating lever, and means for

liminary horizontal movement of the cover clamping the cover to the recessed pivoted prior to the lifting movement. member when in the final open position,

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cover therefor and means for actuating the as and for the purpose specified. cover including a formation projecting from 11. In combination with a receptacle, a and the element pivoted thereto for permit- cover, an actuating lever, and means for

cover therefor and means for actuating the ment transverse the pivotal movement. cover including a formation projecting from 20, the wall of the receptacle, an element piv-

15 8. In combination with a receptacle, a said clamping member being loosely pivoted 45.

the wall of the receptacle, an element piv- cover therefor and means for actuating the oted thereto provided with a recessed por- cover including a formation projecting from 20 tion for receiving the rim or flange of the the wall of the receptacle, an element piv- 50 cover, an actuating lever, and means provid- oted thereto provided with a recessed poring play between the projecting formation tion for receiving the rim or flange of the ting relative movement between cover and clamping the cover to the recessed pivoted 25, receptacle to facilitate the opening and clos- member when in the final open position, said 55 ing of the receptacle. 9. In combination with a receptacle, a movement and also limited rocking move-

WALTER D. BANES.

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