

July 12, 1960

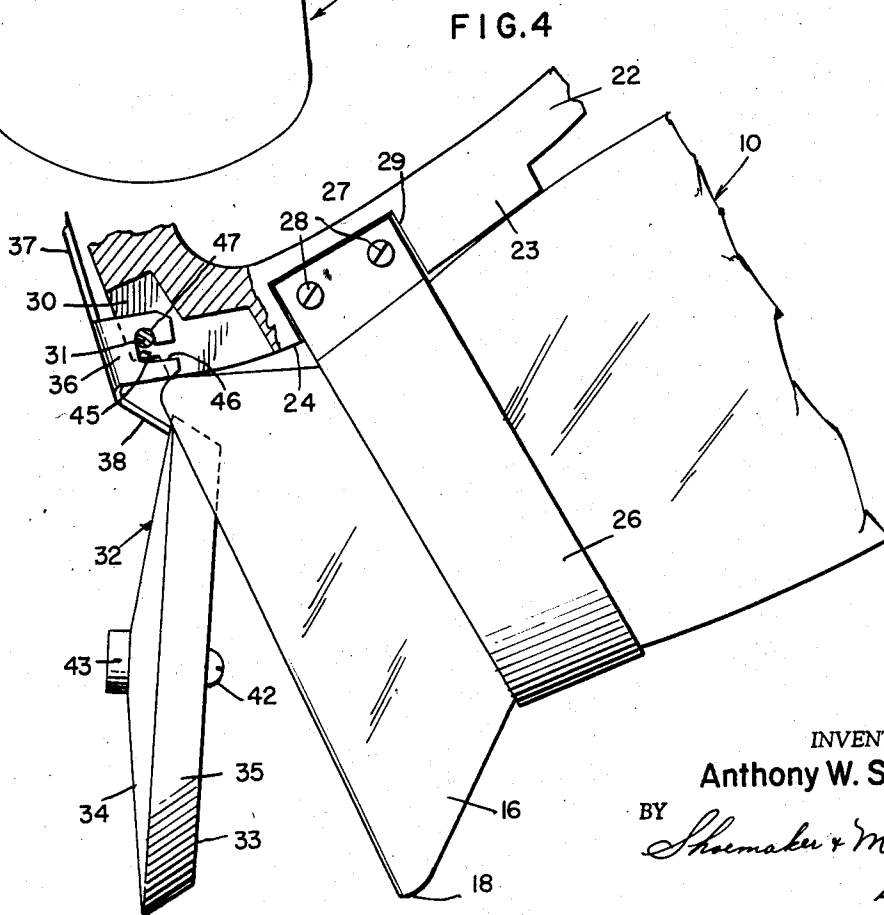
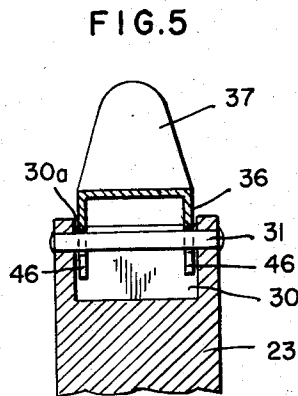
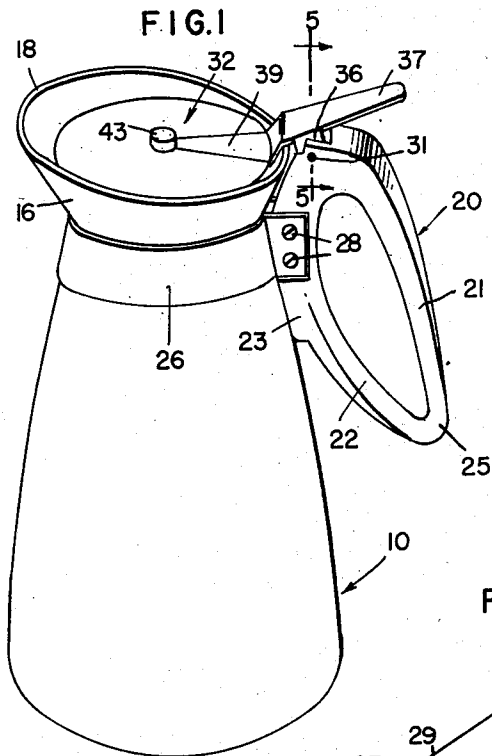
A. W. SERIO

2,944,691

RECEPTACLE AND COVER THEREFOR

Filed May 15, 1957

2 Sheets-Sheet 1.



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2 Sheets-Sheet 2

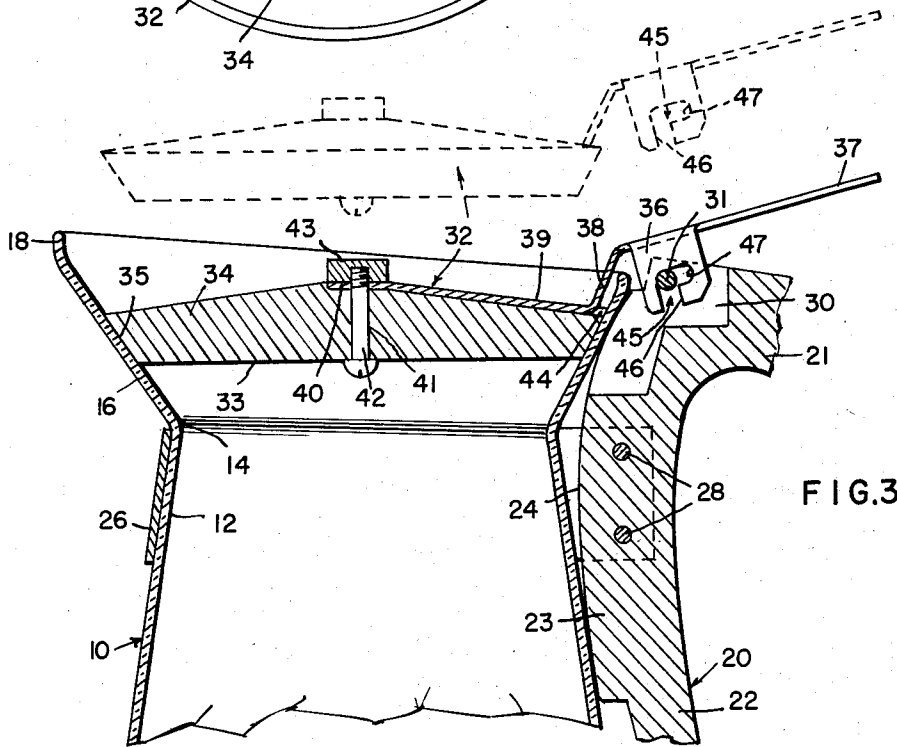
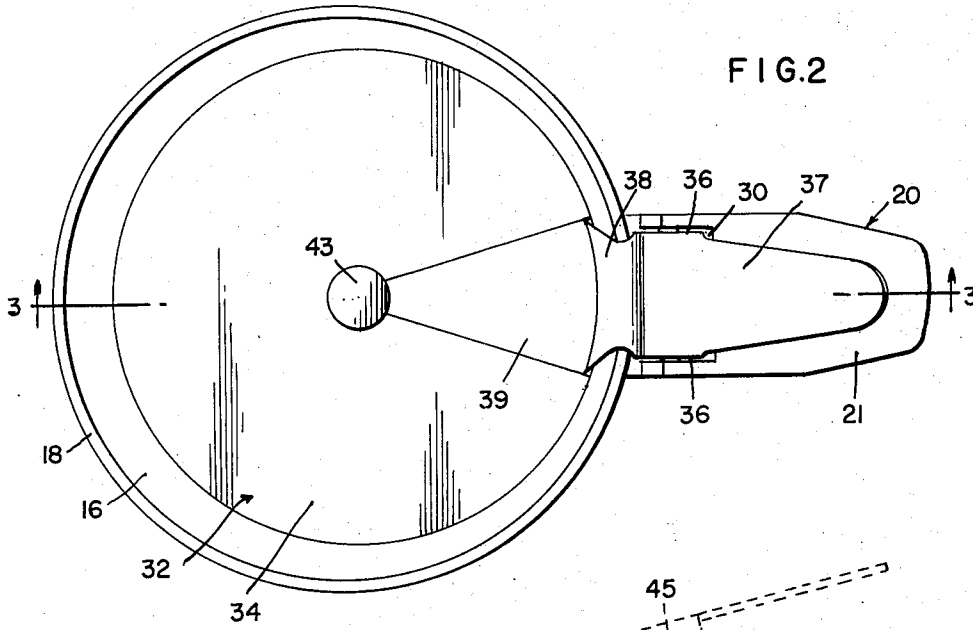


FIG. 3

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2,944,691

RECEPTACLE AND COVER THEREFOR

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13 Claims. (Cl. 215-63)

This invention relates generally to the class of receptacles of all types and materials and covers for the same.

In homes and business establishments use is made of many types of covered receptacles wherein the covers are hingedly attached either directly to the body of the receptacle or, in the case of receptacles of glass or plastic, are attached to a mounting body which is in turn secured to the receptacle. Many such receptacles are used for dispensing or serving liquids, such as coffee, tea, soft drinks and the like, and in most cases it is desirable that the cover or closure for the receptacle be designed to function in coaction with the design of the mouth of the receptacle to provide a relatively close or tight fit, either to protect the contents of the receptacle or, if the receptacle is used for hot liquids, to keep the same from cooling.

In the majority of instances the receptacle covers are attached so as to be non-removable or, if they are removable, they can only be removed with difficulty by the use of suitable tools or implements.

Covers for receptacles such as above described, when permanently attached, may also become misaligned so that they will not close tightly in or over the mouth of the receptacle and in addition, where receptacles have the covers or closures permanently attached, they interfere with the ease of cleaning the receptacle.

In the light of the foregoing, it is a particular object of the present invention to provide a receptacle and a cover designed for use therewith, wherein the design of the cover and of the receptacle mouth over which it engages, is such as to guarantee a good closing fit of the cover to the receptacle opening or mouth.

Another object of the invention is to provide a receptacle cover and means for mounting the same whereby the cover will automatically center itself upon being released to move to closing position.

Still another object of the invention is to provide a receptacle cover and mounting means for hingedly attaching the cover to the receptacle wherein the cover is adapted to be easily and quickly removed from the receptacle without the use of implements.

A still further object of the invention is to provide a receptacle cover and hinge mounting which is designed to permit the cover to swing freely to opened position upon the tipping of the receptacle for dispensing the contents and to return automatically to proper closed and tight fitting position in the mouth of the receptacle upon returning the receptacle to an upright position.

A still further object of the invention is to provide a new and novel receptacle and cover and hinge construction wherein the cover and hinge are secured to the receptacle body in a novel manner and wherein the cover may be easily and quickly removed from the receptacle by lifting the cover directly upwardly from the mouth of the receptacle.

Other objects and advantages of the invention will become apparent as the disclosure of the same proceeds

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and the invention will be best understood from a consideration of the following detail description taken in connection with the accompanying drawings forming a part of the specification, with the understanding, however, that the invention is not confined to a strict conformity with the showing of the drawings but may be changed or modified so long as such changes or modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawings:

Fig. 1 is a view in perspective of a pitcher type of receptacle showing the novel mouth or lip formation for coaction with the cover and showing the new cover and mounting means with the cover in closed position;

Fig. 2 is a view in top plan on an enlarged scale of the structure shown in Fig. 1;

Fig. 3 is a sectional view taken substantially on the line 3-3 of Fig. 2 and showing in dotted outlines the cover in removed position above the mouth of the receptacle;

Fig. 4 is an enlarged detail view partly in section, showing the receptacle tipped for pouring and illustrating the manner in which the cover swings open in the pouring operation;

Fig. 5 is a fragmentary section taken transversely of the receptacle handle through the cover hinge, the section being substantially on the line 5-5 of Fig. 1.

Referring now more particularly to the drawings, the numeral 10 generally designates a pitcher type of receptacle which is here shown as being of glass although obviously it may be formed of plastic, metal or any other suitable material.

Also it is to be understood that in addition to the fact that the receptacle may be made of any desired material, it may be of any desired form or shape and not necessarily the form here illustrated.

In the receptacle illustrated, the upper portion tapers or decreases in size slightly to a neck 12 leading to a mouth opening 14 which is encircled by a surrounding upwardly and outwardly flaring lip 16 of substantial width. This lip 16, as here illustrated, is made to have a gradually increasing height from the rear or back part of the receptacle to the front part and terminates in a reversely turned surrounding and narrow flange 18. It will be understood, however, that the invention is not necessarily limited to use with a receptacle having a lip of greater height at the front than at the back as obviously the top edge or flange 18 of the lip may be straight across or in a plane perpendicular to the longitudinal axis of the receptacle.

It is important, however, for the accomplishment of the present invention, that the lip 16 be outwardly diverging or outwardly flaring and relatively wide from top to bottom, as illustrated, to cooperate with the cover which is about to be described.

The numeral 20 generally designates a handle for the receptacle which, as is clearly shown in Fig. 1, is generally in the form of an elongated ellipse. Accordingly the handle embodies an outer longitudinally arcuate gripping portion 21 and an inner longitudinally arcuate receptacle opposing portion 22. This inner portion in the upper half is materially thickened or made heavier than the lower half thereof, as indicated at 23, and has the longitudinally curved receptacle engaging surface 24 which, when the handle is secured to the receptacle, lies against the outer side of the lip 16 at the back of the receptacle and against the outer side or wall of the receptacle body below the neck 12, thus bridging the angle between the lip and the neck portion.

The lower end portions of the outer part 21 and inner

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or receptacle opposing part 22 of the handle extend outwardly and away from the body of the receptacle, joining in the relatively narrow or pointed lower end 25. The handle is fixed or secured to the receptacle body in the neck portion thereof preferably by the use of a mounting collar band 26. This band is fitted tightly around the neck portion of the receptacle and has two end portions which are turned outwardly forming mounting ears 27 between which the part 23 of the handle positions. These mounting ears engage the part 23 of the handle approximately midway between the upper and lower ends of this thickened part 23 and are secured to opposite side faces of the thickened part by screws 28 or other suitable attaching elements. Preferably the opposite or lateral faces of the thickened part 23 are recessed as indicated at 29 to receive the mounting ears 27 although this is not required but it adds to the rigidity and strength of the construction.

When the handle is secured in position on the receptacle body the upper end portion where the inner and outer portions 21 and 22 merge or are joined together, and which upper end portion is of substantial width as shown in Figs. 2 and 5, has formed therein an upwardly opening hinge socket 30. This hinge socket in addition to opening upwardly through the top of the handle structure, opens also toward the body of the receptacle or toward the lip, as is clearly shown in Figs. 3 and 4.

Fixed to and extending transversely of the thickened top portion of the handle and across the upper part of the hinge socket 30 is the hinge bar or pin 31. This bar or pin is located approximately in the plane of the top of the adjacent portion of the lip flange 18 and is also spaced approximately midway between such flange and the outer side of the socket 30, thus providing, as shown in Figs. 3 and 4, a substantial amount of space forwardly and rearwardly of the hinge bar 31 in the socket space.

The numeral 32 designates the lid or cover for the receptacle. The likewise may be formed of any suitable material and it is of circular contour as shown in Fig. 2 and has in the form illustrated a flat bottom face 33 and a slightly domed top surface or face 34. The cover is of substantial thickness and the faces 33 and 34 are joined by the outwardly sloping or inclined peripheral face 35, the angle of which face with respect to the center of the cover and of the receptacle is the same as the angle of the inner surface of the receptacle lip 16 against which the cover face 35 seats. Also the over-all diameter of the cover 32 is such as to position within the area defined by the receptacle lip 16. Thus the cover when in closed position will fit snugly in the area which the receptacle lip defines and the two opposing faces of the receptacle lip and the cover will lie flat one against the other to give a tight engagement.

The cover or closure 32 is hinged to the receptacle handle 20 by the hinge pin 31 and the hinge ears 36. Thus as will be readily apparent, the pin 31 and the ears 36 constitute, with the means for coupling the ears to the cover, the cover hinge. The hinge ears 36 are joined to the body of the cover 32 in a suitable manner and in the construction here illustrated, the manner of joining the hinge embodies a long flat cover handle 37 which has an angularly extending inner end portion 38 which in turn is attached to or forms an angular extension of an elongate plate 39. This plate 39, where it joins the angular portion 38 of the cover handle 37 is of substantial width and it tapers toward its free end and terminates in an aperture member or washer 40 and the length of the plate 39 is such that when the outer end thereof which joins the portion 38 is positioned adjacent to the edge of the cover, the inner or washer-forming end 40 will be at the radial center of the cover and aligns with an axial passage 41 to receive the threaded outer end portion of an attaching screw 42,

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which threaded outer end of the screw receives the blind nut 43.

Preferably the plate 39 is countersunk in the top surface of the cover in the recess 44 so that its top surface will be flush with the top surface of the cover.

It will be seen upon reference particularly to Fig. 3 that when the plate 39 is secured to the top of the cover, the portion 38 will extend at an angle upwardly and outwardly and this portion is of sufficient height to locate the attached end of the cover handle 37 well above the edge of the flange 18. Also as shown, the hinge ears 36 which are attached to or integrally a part of the opposite edges of the cover handle 37, are disposed adjacent to the angular connecting portion 38 between this handle and the plate 39 and these hinge ears extend downwardly from the opposite edges of the cover handle 37 in proper spaced relation to position within the hinge socket 30.

Each of the hinge ears 36 has formed therein the right angle or bayonet slot 45 and one arm 46 of the slot is directed downwardly and opens through the free lower edge of the hinge ear while the other arm 47 of the slot extends away from the cover as shown in Figs. 3 and 4. The position of the bayonet slots 45 of the hinge ears is such that when the cover is lowered into the lip area of the receptacle, the hinge pin 31 will enter the open ends of the arms 46 of the slots and when the cover comes to rest on the inner surface of the lip, the hinge pin will lie in the angle between the arms of the bayonet slots.

With the foregoing construction it will be seen upon reference to Fig. 4 and it will also be readily apparent from Fig. 3, that when the receptacle is tipped for the purpose of pouring out the contents, the cover will slip downwardly and forwardly and the hinge pin 31 will slide into the closed rear ends of the bayonet slot arm portions 47 and the cover accordingly will be suspended for free swinging movement and will not escape from the receptacle.

It will also be readily apparent that by the provision of the cover handle 37, which extends upwardly from the underlying receptacle handle 20, the handle 37 can be easily manipulated by the thumb of the hand grasping the handle 20 and due to the free play which the hinge ears 36 have on the hinge pin 31, that is, the freedom of movement of the ears slightly backwardly and forwardly on the pin 31, when the cover handle 37 is released to let the cover drop, it will automatically seat itself against the sloping surface of the receptacle lip 16. Also there is a slight amount of space between the outer sides of the hinge ears 36 and the opposing surfaces of the socket 30, as shown in Fig. 5 at 30a, which allows for some slight lateral movement or oscillation of the cover which coacts with the movement previously described of the cover forwardly and backwardly on the hinge pin 36, thereby further assuring the proper automatic seating of the cover for effecting the relatively tight closure of the receptacle mouth.

Obviously from the foregoing, when the receptacle is to be washed, the cover can be easily and quickly removed so that it will not interfere with the washing or cleansing of the receptacle as it can be lifted directly out of the lip area as shown in dotted lines in Fig. 3, without the use of any implements for removing elements of the hinge mechanism.

From the foregoing it will be seen that there is provided by the present invention a new and novel receptacle and cover combination which is of relatively simple design or construction so that it may be economically manufactured and which will enable the user to separate the parts with ease and re-join them as may be necessary in connection with washing or other jobs and also by the provision of the easy means for detaching the cover it will be seen that the filling of the receptacle is facilitated as it will not be necessary for the cover to be held in opened

position while such filling is taking place as it can be completely removed and laid aside to permit this.

I claim:

1. In combination, a receptacle having an open top, an outwardly flaring lip defining the open top, a cover adapted to position within the area enclosed by said lip and having an outwardly sloping peripheral face for surface peripheral sealing engagement with a substantial area of the inclined top surface of the lip, and means for hingedly coupling the cover with the receptacle, said coupling means including first guide means extending laterally toward said opening and second guide means extending at an angle with respect to said first guide means when the cover is in operative opening closing position whereby said cover may freely seek the said sealing engagement with the lip when pivoted on the hinge coupling to closed position.

2. The invention according to claim 1, wherein the hinge coupling means is a relatively loose coupling means permitting free shifting and rocking of the cover relative to the said top surface of the lip.

3. For use with a receptacle having a mouth opening, a cover body, a support therefor, means for securing the support to the receptacle in a position for the cover body to close the mouth opening, and a two part hinge connection between the cover body and the support therefor and comprising a pivot pin and an ear having a slot formed therein within which the pivot pin is detachably engaged, said slot being an angled slot including two arms, one arm thereof opening downwardly when the cover body is in opening closing position, and the other of said arms continuing from said one arm in a direction away from the cover.

4. For use with a receptacle having a mouth opening, a cover body adapted to close the mouth opening, a handle for the receptacle, means for securing the handle to the side of the receptacle in a position for the cover body to close the mouth opening, said handle having a top part having an upwardly opening socket, a hinge pivot member in the socket and directed transversely of the handle, and a hinge ear carried by the cover body and extended into the socket and having a bayonet slot for detachably receiving the hinge pivot member, said bayonet slot including an elongated portion opening in a downward direction when the cover body is in opening closing position to permit free lift-off of the lid in an upward direction.

5. In combination, a receptacle having a mouth opening and a relatively wide outwardly flaring lip surrounding the opening, a handle for the receptacle having an elongate part positioned against the outer side of said lip and the body, means securing the handle to the receptacle, the handle having a top portion having therein an upwardly opening hinge socket, a disk cover body, a bevel peripheral face adapted to seat upon the top surface of said lip to close the mouth opening, a plate secured to the top of the cover body and joining an upwardly and outwardly extending member at the edge of the cover body and adapted to extend above the edge of the lip when the cover body is closing the mouth opening, a cover handle forming an upward and outward extension of said member and overlying said socket, hinge ears carried by the cover handle and projecting into said socket, and means in the socket for detachably pivotally retaining the hinge ears therein.

6. The invention according to claim 5, wherein the last means includes angled slots in the hinge ears and open at one end and fixed pivot means in the socket engaging in the slots.

7. The invention according to claim 5, wherein the last means includes bayonet slots in the ears each having an end opening downwardly through an edge of the ear and an opposite closed end directed away from the cover body and a pivot pin extending across the socket and lying in the bayonet slots.

8. In combination, a receptacle having a mouth open-

ing, a closure for said opening having a peripheral edge face coacting with the opening to close the latter, a receptacle handle secured to the side of the receptacle and having a top portion adjacent to the top of the receptacle, a cover handle attached to the cover and extending therefrom upwardly and outwardly over said top portion of the receptacle handle, and a hinge connection between the cover handle and the underlying top portion of the receptacle handle designed to permit non-pivotal movement of the cover relative to the mouth opening for accurate seating of the cover in opening closing position, said receptacle handle having a socket in the said underlying top portion of the receptacle handle, and said hinge connection embodying a hinge ear extending down from said cover handle into the socket and having a slot therein, and a fixed pivot member in the socket and engaged in said slot.

9. In combination, a receptacle having a mouth opening, a closure for said opening having a peripheral edge face coacting with the opening to close the latter, a receptacle handle secured to the side of the receptacle and having a top portion adjacent to the top of the receptacle, a cover handle attached to the cover and extending therefrom upwardly and outwardly over said top portion of the receptacle handle, and a hinge connection between the cover handle and the underlying top portion of the receptacle handle designed to permit non-pivotal movement of the cover relative to the mouth opening for accurate seating of the cover in opening closing position, said receptacle handle having a socket in the said underlying top portion of the receptacle handle, and said hinge connection embodying a hinge ear extending down from said cover handle into the socket and having a slot therein, and a fixed pivot member in the socket and engaged in said slot, said slot being an angled slot having one arm thereof directed downwardly and opening through the lower part of said ear and having another arm continuing from said one arm in a direction away from the cover.

10. For use with a receptacle having a mouth opening, a cover, a support for said cover, means for securing the support to the receptacle in a position for the cover to close the mouth opening, and a two-part hinge connection between the cover and the support therefor, said hinge connection including a pivot pin and an ear having a slot formed therein within which the pivot pin is detachably engaged, said slot including a pair of arms, one of said arms extending downwardly and outwardly with respect to the cover when the cover is in opening closing position, the other of said arms extending substantially at a right angle to said first-mentioned arm and extending outwardly of said cover when the cover is in opening closing position.

11. In combination, a receptacle having a mouth opening, a closure for said opening having a peripheral edge face coacting with the opening to close the latter, a receptacle handle secured to the side of the receptacle and having a top portion adjacent to the top of the receptacle, a cover handle attached to the cover and extending therefrom upwardly and outwardly over said top portion of the receptacle handle, and a hinge connection between the cover handle and the underlying top portion of the receptacle handle designed to permit non-pivotal movement of the cover relative to the mouth opening for accurate seating of the cover in opening closing position, said handle having an upwardly opening socket in the top portion thereof below the cover handle, the cover handle comprising an elongate flat member and said hinge connection embodying two spaced ears extending down into the socket from the side edges of the cover handle and each ear having a downwardly opening bayonet slot and a pivot pin extending across the socket and through said bayonet slots, said bayonet slots being positioned to permit pivotal movement of the cover when the receptacle is in pouring position and to permit quick detachment of the cover from the receptacle.

12. In combination, a receptacle having a mouth opening, a cover formed to close said opening, and means hingedly coupling the cover with the receptacle for free swinging in the pouring position of the receptacle while remaining coupled thereto, said hinge coupling means including an elongated slot opening in a downward direction when the cover body is in opening closing position to permit free lift-off of the lid in an upward direction when the lid is in opening closing position without pivoting the cover about said hinge coupling means with respect to the receptacle.

13. In combination, a receptacle having a mouth opening, a closure cover for said opening having a peripheral edge face coacting with the opening to close the latter, a receptacle handle secured to the side of the receptacle and having a top portion adjacent to the top of the receptacle, a cover handle attached to the cover and extending therefrom upwardly and outwardly of said top portion of the receptacle handle, and a hinge connection between the cover handle and the underlying top portion of the receptacle handle constructed and arranged to per-

mit non-pivotal movement of the cover relative to the mouth opening for accurate seating of the cover in opening closing position, said hinge connection including an elongated slot opening in a downward direction when the cover body is in opening closing position to permit free lift-off of the cover in an upward direction without pivoting the cover about said hinge connection with respect to the receptacle when the cover is in opening closing position.

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