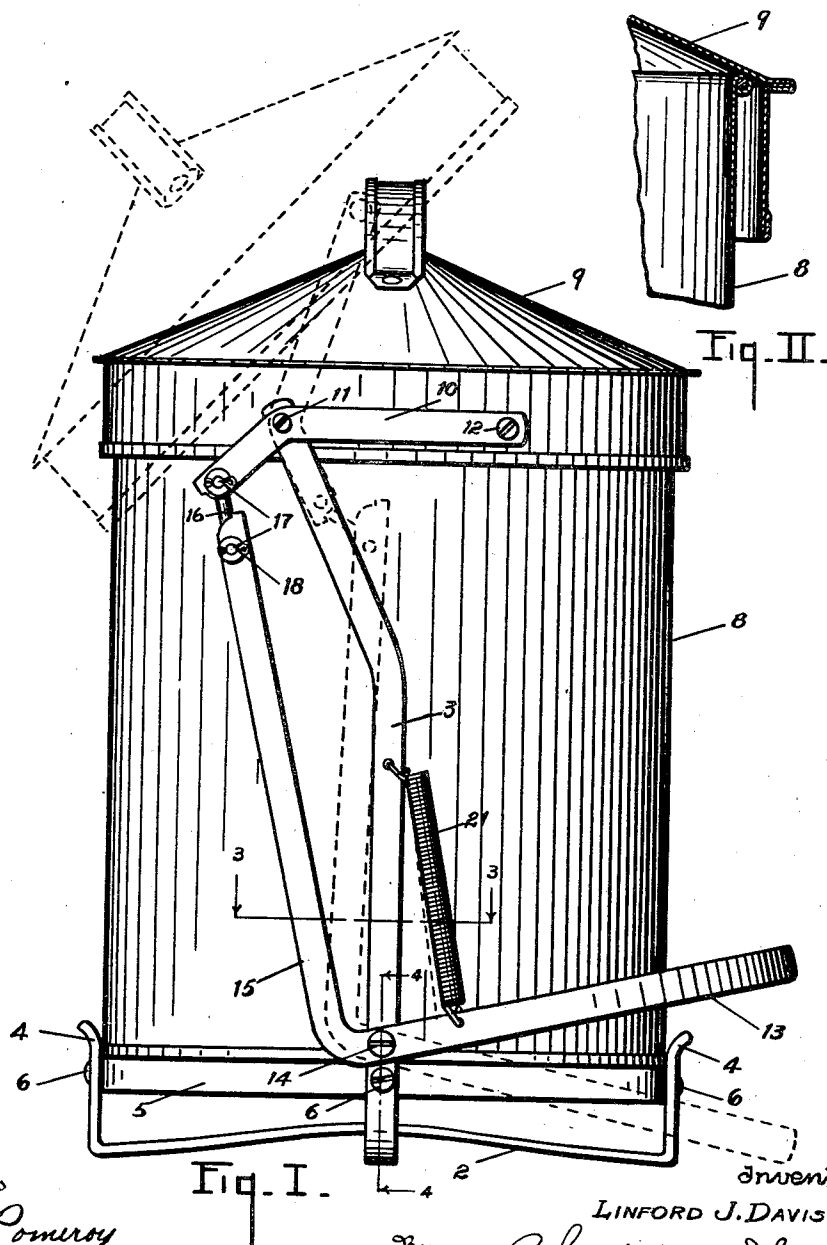


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 RECEPTACLE SUPPORT AND COVER OPERATING AND LOCKING MEANS.
 APPLICATION FILED MAR. 1, 1915.

1,199,531.

Patented Sept. 26, 1916.
 2 SHEETS—SHEET 1.



Witnesses

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Fig. I.

By

LINFORD J. DAVIS.

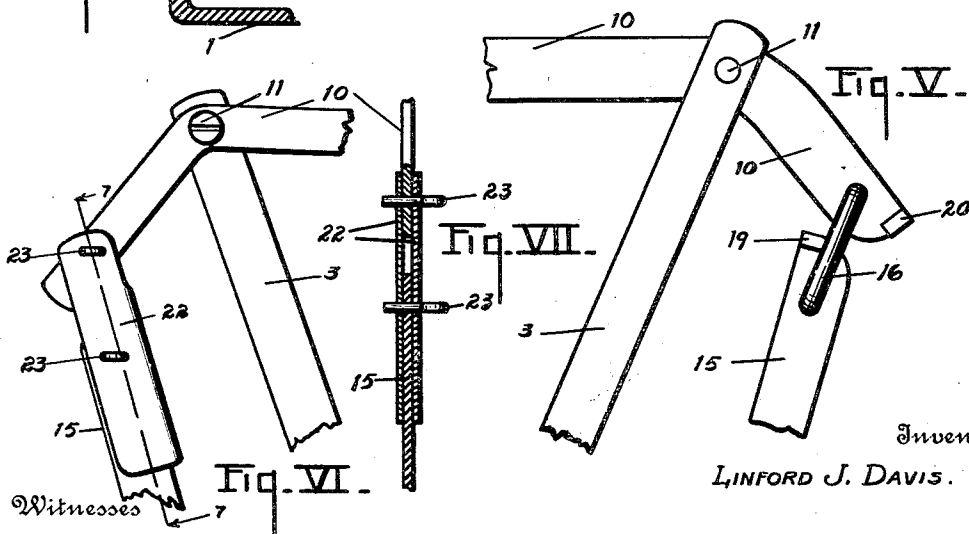
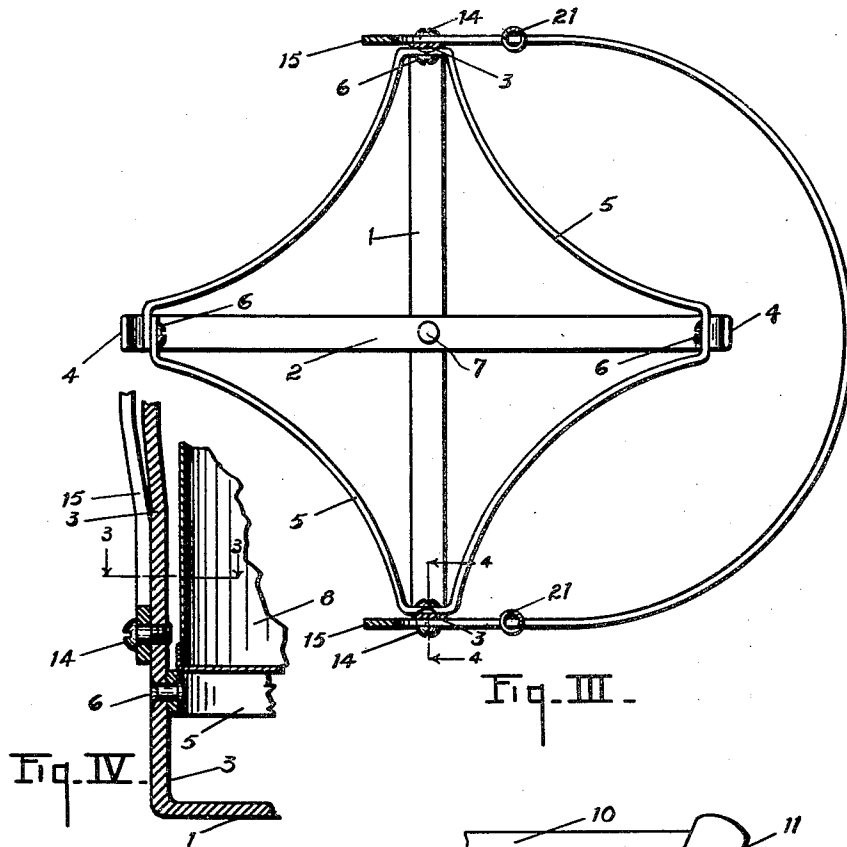
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UNITED STATES PATENT OFFICE.

LINFORD J. DAVIS, OF BATTLE CREEK, MICHIGAN, ASSIGNOR TO THE KEYES-DAVIS COMPANY, INC., OF BATTLE CREEK, MICHIGAN.

RECEPTACLE SUPPORT AND COVER OPERATING AND LOCKING MEANS.

1,199,531.

Specification of Letters Patent. Patented Sept. 26, 1916.

Application filed March 1, 1915. Serial No. 11,202.

To all whom it may concern:

Be it known that I, LINFORD J. DAVIS, a citizen of the United States, residing at Battle Creek, Michigan, have invented certain new and useful Improvements in Receptacle Supports and Cover Operating and Locking Means, of which the following is a specification.

This invention relates to improvements in receptacle supports and cover operating and locking means.

My improvements are especially designed by me for use as garbage or waste can or receptacle holders and I have illustrated the same in the accompanying drawings as I have embodied them for use for such purpose. My improvements may, however, be readily embodied in structures designed for other purposes.

The main objects of this invention are: First, to provide an improved receptacle holder and cover operating and locking means. Second, to provide an improved receptacle holder and cover operating and locking means adapted to lock the cover on the receptacle when the cover is closed, which is simple in structure and one which is easy to operate and not likely to get out of repair.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

Figure I is a side view of a structure embodying the features of my invention, the cover and cover actuating mechanism being shown in its raised position by dotted lines. Fig. II is an enlarged detail vertical section through the receptacle body and the cover. Fig. III is a detail horizontal section on a line corresponding to line 3—3 of Figs. I and IV, the receptacle being removed. Fig. IV is a detail vertical section on a line corresponding to line 4—4 of Figs. I and III. Fig. V is a detail elevation showing the connections for the cover and actuating levers. Fig. VI is a detail side elevation of

a modified structure showing a modified form of connecting the link for the cover lever and the actuating lever. Fig. VII is a detail section on a line corresponding to line 7—7 of Fig. VI.

In the drawings, similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawings, the receptacle support in the structure illustrated comprises a pair of crossed base members 1 and 2, the ends of the base member 1 being extended into uprights 3, while the base member 2 is provided with upturned ends 4. The support or rest 5 is secured by screws or rivets 6 to these upturned ends 4 and to the uprights 3. The base members are connected by a central rivet 7. The receptacle 8 rests on the receptacle support 5. The uprights 3 extend up at each side of the receptacle, their upper ends being bent rearwardly as shown in Fig. I.

The cover 9 is mounted on arms or levers 10 pivoted at 11 on the upper ends of the uprights. The levers 10 are pivotally connected to the cover at 12, so that when the levers are tilted on their pivots the cover is swung upward and backward, the cover tilting on the edge of the receptacle with a sliding and rocking movement. The actuating lever 13 is pivoted to the uprights at 14. The lever 13 is bail-shaped and projects at the front of the receptacle so as to be conveniently operated by the foot of the operator. The lever 13 is provided with upwardly projecting arms 15 which are connected to the rear ends of the cover levers by means of the links 16. These links are, in the structure illustrated, formed of wire, the ends of the links being bent laterally to form the pivots 17 arranged through the levers and retained by cotter pins 18. The arms of the actuating lever are provided with stops 19 which engage with the links when the cover is in its closed position, while the cover levers 10 are provided with stops 20 which engage the links when the cover is in its open position. The stops 19 are so disposed as to permit the pivots connecting the links to the actuating lever arms to swing past a plane through the pivots for the actuating lever and the pivots connecting the links to the cover

levers so that a lock is provided for the cover when it is closed. When the actuating lever is pressed downwardly the lever arms are thrown forwardly, this lock is broken and the cover raised. The actuating lever is returned by coiled springs 21 which are connected to the lever and to the uprights. These springs serve to completely close the cover and insure the parts swinging to locking position.

In the modified form shown in Figs. VI and VII the links 22 are formed of sheet metal folded to embrace the cover and actuating levers, the pivots 23 being formed of cotter pins. The fold in the links engaging the edge of the actuating lever constitutes the stop and the cover lever also swings in engagement with the fold of the link constituting a stop therefor.

With the parts thus arranged, as I have illustrated, the structure is simple and economical to produce and very easy to operate and an effective lock is provided without the necessity of catches or the like. With the cover in its raised position the receptacle can be conveniently lifted from the support and a clean receptacle placed thereon. The cover is securely retained so that it cannot be opened by dogs and will not accidentally open in the event of the structure being tipped over.

I have illustrated and described my improvements in detail in the form in which I have embodied the same. I have not attempted to illustrate or describe various modifications which I contemplate as I believe the disclosure made will enable those skilled in the art to embody or adapt the same as may be deemed desirable.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a structure of the class described, the combination with a receptacle and a cover therefor, of a receptacle support, uprights disposed at the sides of the receptacle and projecting rearwardly at their upper ends, cover levers pivotally mounted on said uprights, the front ends of the levers being pivotally secured to the cover so that the cover is tilted on the rear edge of the receptacle when the levers are actuated to open the cover, a bail-shaped actuating lever pivotally mounted on said uprights, said actuating lever being provided with upwardly projecting arms, links connecting said actuating lever arms to the rear ends of said cover levers, the pivots connecting said links to said actuating lever arms being arranged to swing past a plane through the actuating lever pivots and the pivots connecting said links to said cover levers thereby providing a lock for said cover, said actuating lever arms being provided with stops engaging said links when

in locking position, said cover levers being provided with stops engaging said links when in open position, and a return spring for said actuating lever connected thereto and to said uprights.

2. In a structure of the class described, the combination with a receptacle and a cover therefor, of a receptacle support, uprights disposed at the sides of the receptacle and projecting rearwardly at their upper ends, cover levers pivotally mounted on said uprights, the front ends of the levers being pivotally secured to the cover so that the cover is tilted on the rear edge of the receptacle when the levers are actuated to open the cover, a bail-shaped actuating lever pivotally mounted on said uprights, said actuating lever being provided with upwardly projecting arms, and links connecting said actuating lever arms to the rear ends of said cover levers, the pivots connecting said links to said actuating lever arms being arranged to swing past a plane through the actuating lever pivots and the pivots connecting said links to said cover levers thereby providing a lock for said cover.

3. In a structure of the class described, the combination with a receptacle and a cover therefor, of a receptacle support, uprights disposed at the sides of the receptacle cover, levers pivotally mounted on said uprights and connected to said cover, an actuating lever pivotally mounted on said uprights, links connecting said actuating lever to said cover levers, the pivots connecting said links to said actuating lever being arranged to swing past a plane through the actuating lever pivots and the pivots connecting said links to said cover levers thereby providing a lock for said cover, said actuating lever being provided with stops engaging said links when in locking position, said cover levers being provided with stops engaging said links when in open position, and a return spring for said actuating lever.

4. In a structure of the class described, the combination with a receptacle and a cover therefor, of a receptacle support, uprights disposed at the sides of the receptacle cover, levers pivotally mounted on said uprights and connected to said cover, an actuating lever pivotally mounted on said uprights, links connecting said actuating lever to said cover levers, the pivots connecting said links to said actuating lever being arranged to swing past a plane through the actuating lever pivots and the pivots connecting said links to said cover levers thereby providing a lock for said cover.

5. In a structure of the class described, the combination of a receptacle and cover therefor, of a support, a lever pivoted to

said cover so that the cover is tilted on the rear edge of the receptacle when the lever is actuated, an actuating lever, a link connecting said cover lever to said actuating lever, said levers and link constituting a means for opening said cover and a means for locking said cover in its closed position, and a return spring for said actuating lever.

6. In a structure of the class described, the combination of a receptacle and a cover therefor, a support for said receptacle provided with uprights at the sides of said receptacle, a means for opening said cover comprising a lever pivotally mounted on said uprights and pivotally connected to said cover so that the cover is tilted on the rear edge of the receptacle, an actuating lever pivotally mounted on said uprights, and links connecting said actuating cover levers.

7. In a structure of the class described, the combination of a support, a receptacle cover, means for opening said cover comprising a lever connected to said cover, an actuating lever, and a link connecting said cover lever and said actuating lever, the pivot connecting said link to said actuating lever being arranged to swing past a plane through the actuating lever pivot and the pivot connecting said link to said cover lever thereby providing a lock for said cover when in its closed position.

8. In a structure of the class described,

the combination of a receptacle and a cover therefor, of a means for opening said cover comprising an actuating lever, a lever connected to said cover, and a link connecting said actuating and cover levers, the pivot connecting said link to said actuating lever being arranged to swing past a plane through the actuating lever pivot and the pivot connecting said link to said cover lever thereby providing means for locking said cover in its closed position.

9. In a structure of the class described, the combination of a receptacle and a cover therefor, a support, means for opening said cover comprising an actuating lever pivotally mounted on said support, a lever connected to said cover, a link connecting said actuating lever and cover lever, the pivot for said link to said actuating lever being arranged to swing past a plane through the actuating lever pivot and pivot connecting said link to said cover lever, thereby providing a lock for said cover, and a spring connected to said actuating lever and support for actuating the parts to locked position.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

LINFORD J. DAVIS. [L. s.]

Witnesses:

LUELLA G. GREENFIELD,
MARGARET L. GLASGOW.