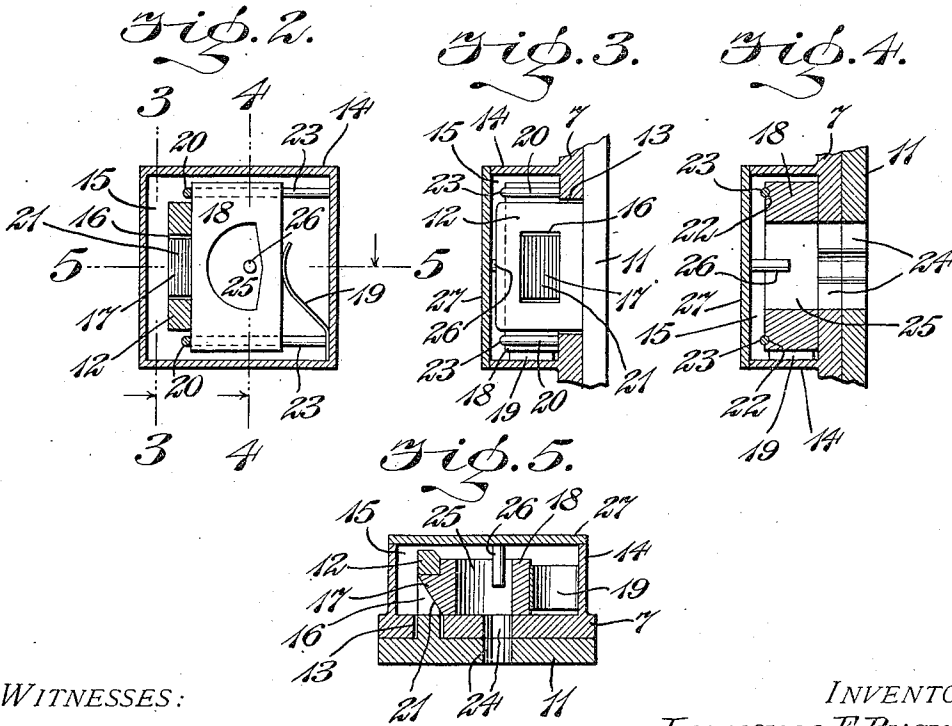
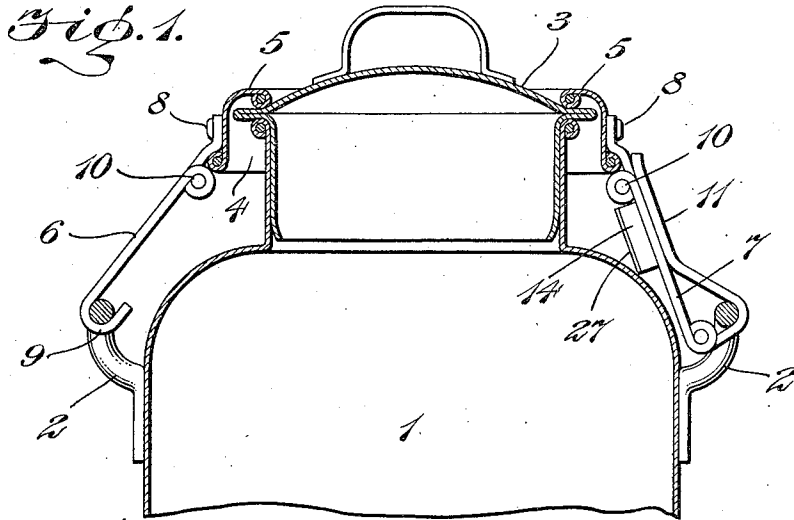


L. F. RYAN.
RETAINING MEANS FOR RECEPTACLE COVERS.
APPLICATION FILED APR. 27, 1912.

1,051,014.

Patented Jan. 21, 1913.



WITNESSES:

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RETAINING MEANS FOR RECEPTACLE-COVERS.

1,051,014.

Specification of Letters Patent.

Patented Jan. 21, 1913.

Application filed April 27, 1912. Serial No. 693,710.

To all whom it may concern:

Be it known that I, LAWRENCE F. RYAN, a citizen of the United States, and a resident of the city, county, and State of New York, have invented certain Improvements in Retaining Means for Receptacle-Covers, of which the following is a specification.

This invention relates to certain improvements in retaining means for receptacle covers and more especially in that class of such devices which are particularly designed and adapted for use in connection with milk receptacles and the like, and the object of the invention is to provide a device of this general character of a simple and comparatively inexpensive nature having certain features of novelty and improvement whereby the closure of the receptacle is effectively held and automatically locked against removal by unauthorized persons.

The invention consists in certain novel features of the construction, and combinations and arrangements of the several parts of the improved retaining means whereby certain important advantages are attained, and the device is rendered simpler, less expensive and otherwise better adapted and more convenient for use, all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claims.

In order that my improvements may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings wherein—

Figure 1 is a central vertical sectional view taken through a milk receptacle with a retaining means for the closure thereof constructed in accordance with my invention; Fig. 2 is a sectional view taken through the locking means as herein disclosed; Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2; Fig. 4 is a sectional view taken on the line 4—4 of Fig. 2; and Fig. 5 is a sectional view taken on the line 5—5 of Fig. 2.

In these views 1 denotes a receptacle herein shown as of the type ordinarily used for containing milk or the like and 2, 2 the lifting handles therefor and 3 the cover or closure all of which may be of any preferred form as the construction thereof forms no particular feature of the present invention.

4 denotes a flat strip herein disclosed as circular in form having the inturned annular flange 5 which upon the application of my invention is adapted to rest upon the upper surface of the closure 3 of the receptacle, the diameter of the endless strip 4 being substantially the same as the diameter of the head of the closure. This dimension of the endless strip 4 need not be exact as it is only necessary that the inturned annular flange 5 be capable of resting upon the upper surface of the cap or closure 3. I have also found it to be of advantage to have the flange curved in cross section to correspond with the upper surface of such cap in order that the retaining device may rest the more snugly thereon. At diametrically opposite points the endless strip 4 is provided with the depending straps 6 and 7 secured to the lower marginal portion of the endless strip 4 by the rivets 8 or other anchoring means. The strap 6 has its lower end portion turned inwardly and upwardly as at 9 to produce a hook like member adapted to engage on the handles of the receptacle.

It is obvious that the hook like member may be extended in an outward direction but I have found in practice that by positioning such hook like member as herein disclosed the possibility of forcibly releasing the same by a suitable tool or implement is reduced to a minimum. It is also to be observed that the strap 6 is of such a curvature as to permit the hook like member to be readily engaged by the co-acting handle 2 when applying the retaining device into operative position.

I have found it of advantage in order to permit convenient and quick engagement of the straps 6 and 7 with the handles 2, 2 to have the lower portions of such straps hinged as at 10 in Fig. 1, the operation and convenience afforded by these hinges being, it is thought, clearly apparent. The strap 7 is of such a length as to extend through and beneath the adjacent handle 2 and to the lower end portion of such strap 7 is hinged secured the auxiliary strap 11 which is adapted to be swung back upon the strap 7 and such auxiliary strap is provided adjacent its free end with the flange member 12

extended lengthwise of the strap 11 and of a predetermined length, which is adapted to be projected through the longitudinally extended elongated slot 13 produced in the strap 7 when the device is in operative position.

To the inner or under surface of the strap 7 I suitably secure the casing 14 of any ordinary or preferred construction which affords a chamber 15 which is adapted to accommodate the projected portion of the flange 12 hereinbefore referred to, and produced in the projected portion of the flange 12 is an elongated slot or opening 16 which is adapted to receive the tongue 17 of the sliding bolt 18 in a substantially automatic manner and as particularly shown through the medium of the spring member 19 which bears against the inner or rear end of the sliding bolt 18 and tends to hold such bolt normally in contact with the stop device 20 which may be of any ordinary or preferred construction, and the position of these stops 20 is such as to position the tongue 17 directly across the path of travel of the flange 12 within the chamber 15 and the surface of such tongue which contacts with the flange 12 being beveled or inclined in such a manner as indicated particularly in Fig. 5 at 21, whereby the entrance of the flange 12 within the chamber 15 automatically retracts the bolt 18 until the opening 16 produced in the flange 12 is in alinement with the tongue 17 when the spring 19 causes such tongue 17 to enter within or through the opening 16 whereby the strap 11 is effectually held against movement into inoperative position until the bolt 12 has been retracted manually such as by a properly formed key.

While the bolt 12 hereinbefore referred to may be of any ordinary or preferred construction and be mounted within the casing 14 in any desired way I prefer that there be produced in one face of the bolt 12 the parallel grooves or channels 22 adapted to accommodate the track ways 23 which are herein shown as formed in a continuation of the stops 20 hereinbefore referred to and as herein disclosed, such stops 20 and track ways 23 are formed in continuancy.

The straps 7 and 11 are provided with the apertures or key openings 24 adapted to register when the device is in operative position, the purpose of such openings being to permit the insertion within the casing 14 or more particularly the chamber 15 thereof of a suitable key, to effect the manual retraction of the bolt 12 as hereinbefore stated. The coaction between the key and the bolt may be in any desired manner which will operate with facility, but as herein shown I have a central portion of the bolt 12 cut out as at 25, the rear wall of such opening being so arranged as to be readily engaged by

the bit of a key irrespective of which direction such key may be turned and in order that proper purchase may be given to the key I have the post 26 carried by closure plate 27 of the casing 14 with which the end portion of the key inserted within the chamber 15 co-acts as in a well known way.

From the above description of my improvements it will be seen that the improved retaining means for receptacles constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature, and is particularly well adapted for use by reason of the automatic manner with which the same is locked and held in operative position, and it will be also obvious from the foregoing description that my invention is susceptible of considerable modification without material departure from the principles and spirit of the invention, and for this reason I do not desire to be understood as limiting myself to the precise formation and arrangement of the several parts of the device as herein set forth in carrying out my invention in practice.

Having thus fully described my invention, what I now claim and desire to secure by Letters Patent is:—

1. A device of the character described comprising a member adapted to surround the closure of a receptacle and having an inturned flange adapted to rest on the upper surface of such closure, straps depending from such member, one of such straps terminating in a hook like member and a second of such straps having an auxiliary strap member hingedly secured thereto and adapted to be swung back thereon and means for automatically locking and holding such auxiliary strap member against displacement when in such position.

2. A device of the character described comprising a member adapted to contact with the closure of a receptacle, straps depending from such member, one of such straps terminating in a hook like portion, and a second of such straps having an auxiliary strap member hingedly secured thereto and adapted to be swung back thereon, and co-acting means carried by the second strap and the auxiliary strap member for automatically locking and holding such auxiliary strap member against displacement when swung back upon the strap.

3. A device of the character described comprising a member adapted to co-act with the closure of a receptacle, straps depending from such member, one of such straps terminating in a hook like portion and a second of such straps having an auxiliary strap member hingedly secured thereto, said second strap being provided with an opening, a perforated flange on the auxiliary member adapted to be extended through the opening in the second member when such strap

member is swung back from the second strap,
and means carried by the second strap ca-
pable of automatic operation to project
through the perforated flange of the aux-
5 iliary member to hold such auxiliary mem-
ber against displacement when swung back
upon the second strap.

In witness whereof I have hereunto signed
my name in the presence of two subscribing
witnesses.

LAWRENCE F. RYAN.

Witnesses:

FRANK RYAN,
W. E. LAWSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
