Jan. 8, 1924. 1,480,294

A. L. OVERHOLT

TOWEL CABINET

Filed July 15, 1921 3 Sheets-Sheet 1

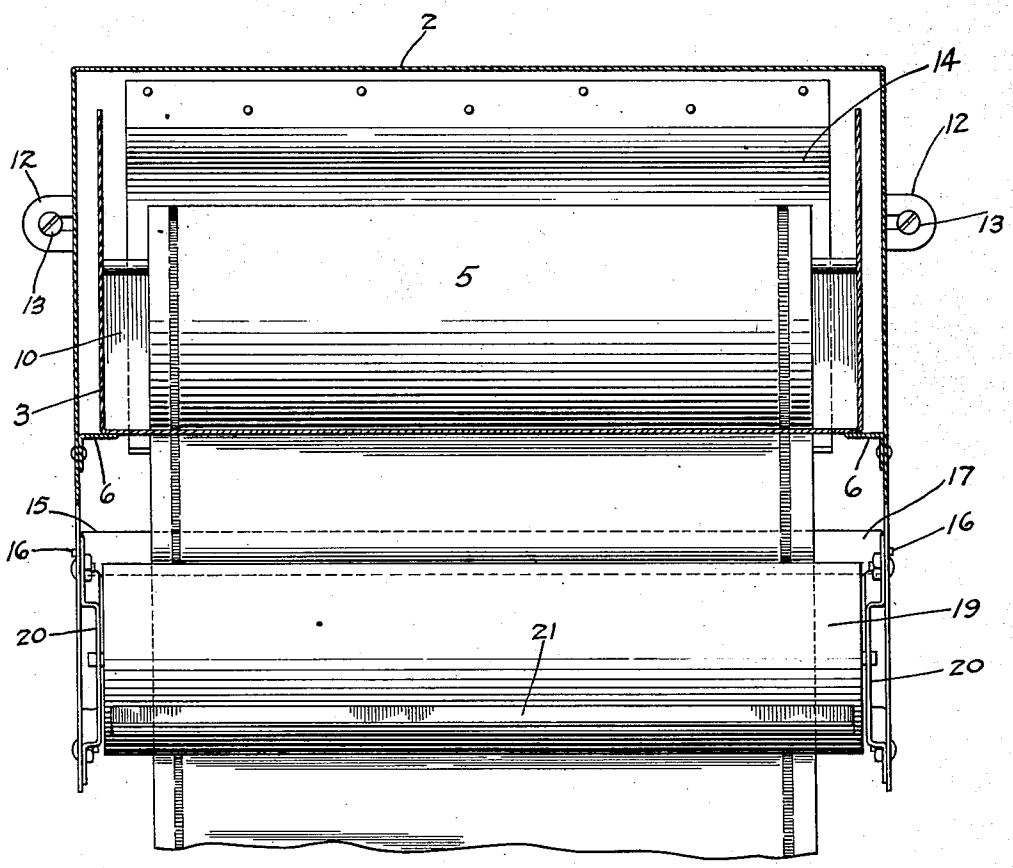


Fig. 1

Inventor
Albert L. Overholt
By Paul Howell
His Attorneys

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A. L. OVERHOLT

TOWEL CABINET

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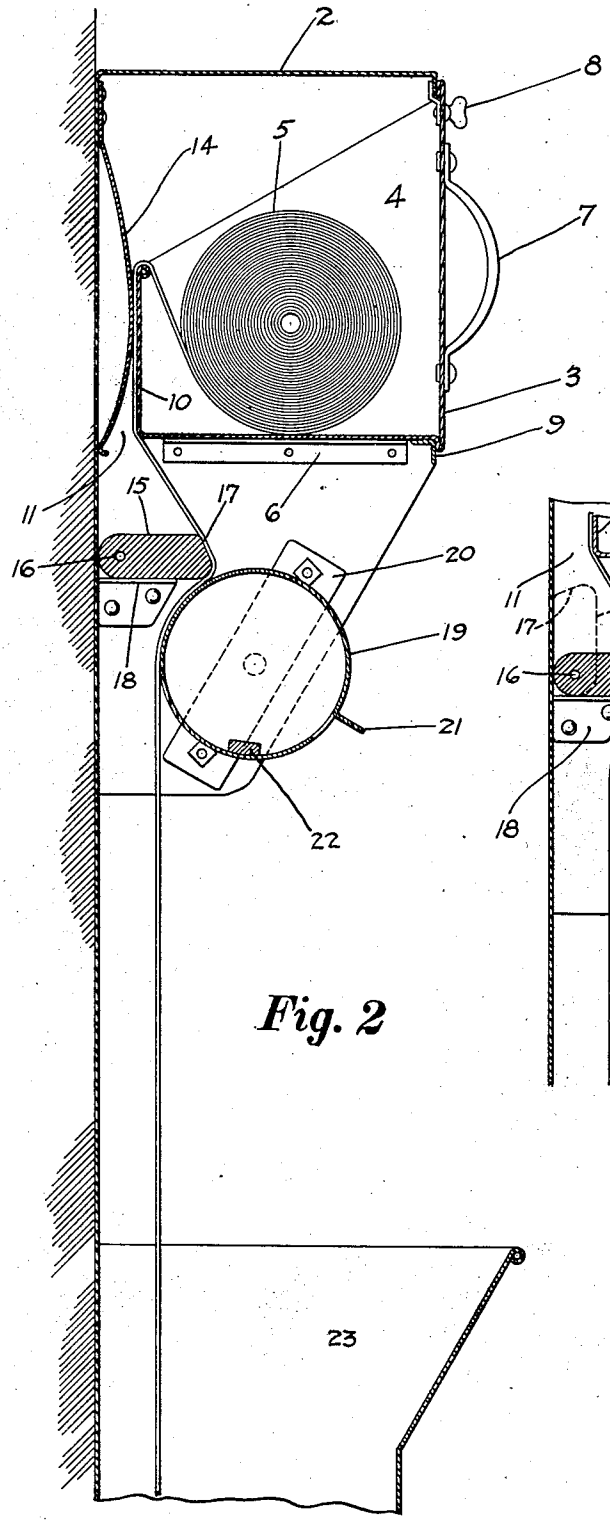


Fig. 2

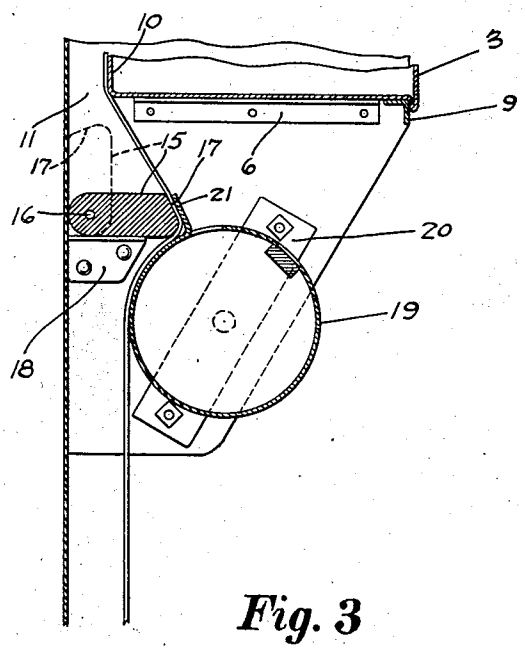


Fig. 3

Inventor
Albert L. Overholt
By Paul Paul
His Attorneys

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A. L. OVERHOLT

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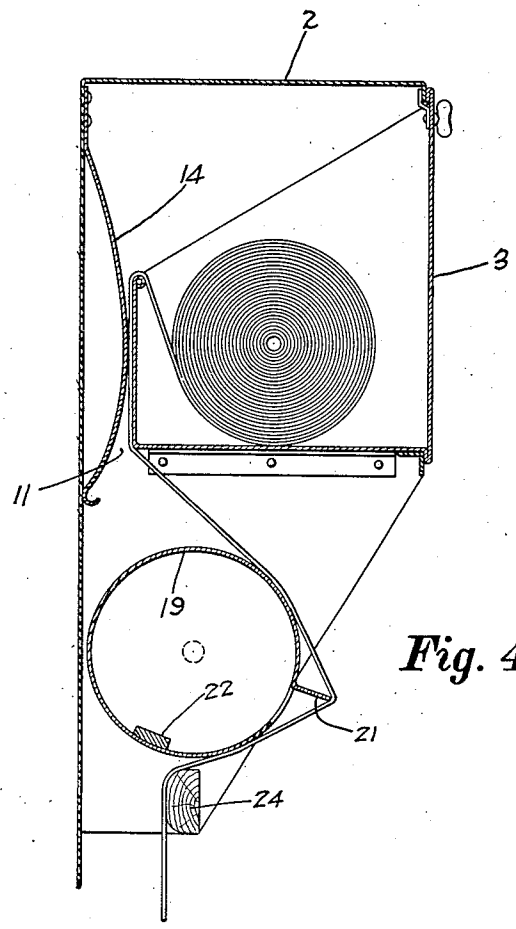


Fig. 4

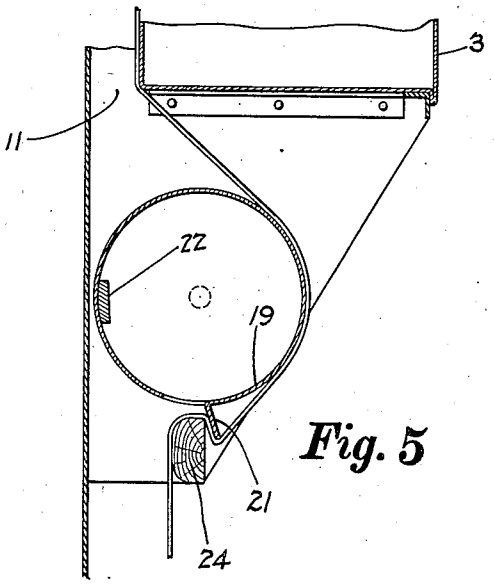


Fig. 5

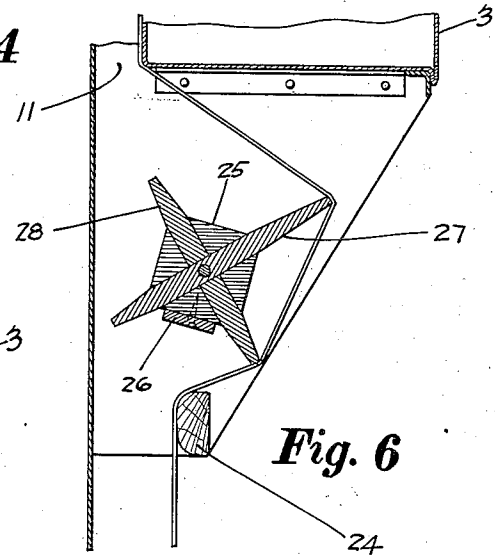


Fig. 6

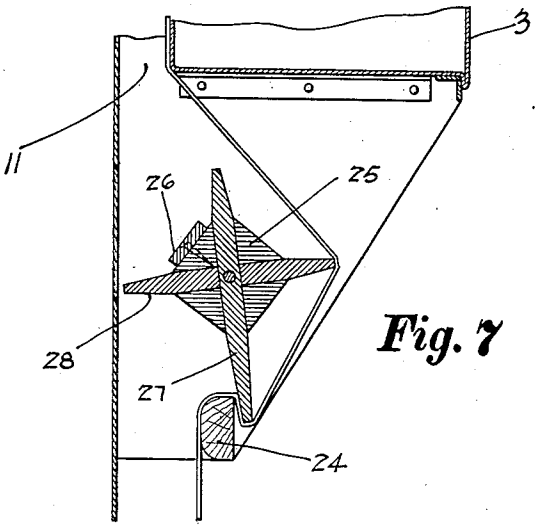


Fig. 7

Inventor
Albert L. Overholt
By Paul Paul
His Attorneys

Patented Jan. 8, 1924. 1,480,294

UNITED STATES PATENT OFFICE.

ALBERT L. OVERHOLT, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO STEINER SALES COMPANY, OF SALT LAKE CITY, UTAH, A CORPORATION OF UTAH.

TOWEL CABINET.

Application filed July 15, 1921. Serial No. 484,843.

To all whom it may concern:

Be it known that I, ALBERT L. OVERHOLT, a citizen of the United States, resident of Minneapolis, county of Hennepin, State of Minnesota, have invented certain new and useful Improvements in Towel Cabinets, of which the following is a specification.

The object of my invention is to provide means in connection with a towel cabinet of the roller type for limiting the delivery of feed of the clean portion of the towel with each pull of the user thereon.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claims.

In the accompanying drawings forming part of this specification,

Figure 1 is a vertical sectional view through the cabinet embodying my invention,

Figure 2 is a transverse vertical sectional view of the same,

Figure 3 is a detail sectional view, showing the measuring device in its locking or clamping position,

Figure 4 is a vertical sectional view, showing a modified arrangement of the measuring device in its normal position, the rotating drum being reversed,

Figure 5 is a similar view, showing the measuring drum in its locking position

Figure 6 illustrates a modified construction showing the reel in place on the drum,

Figure 7 illustrates the locking reel in its locking position.

In the drawing, 2 represents the top of the cabinet and 3 a tilting member having a compartment or chamber 4 wherein the roll of clean toweling 5 is placed, resting upon the bottom of the compartment. This towel container is adapted to slide on horizontal guides 6 and has a suitable handle 7 and locking device 8 for engaging the top 2 and holding the container securely in place.

An angle plate 9 forms a stop against which the flanged lower edge of the container is seated. The towel container has a rear wall 10 over which the loose end of the towel is fed, a space 11 being provided between said wall and the support on which the cabinet is mounted by suitable means, such as ears 12 and screws 13. A spring plate 14 is mounted in the rear of the towel container and is bowed outwardly to exert a yielding pressure on the loose end of the towel and force it against the wall 10, yieldingly resisting the feed of the towel between the wall and the spring. Below the towel container a block 15 is pivoted at 16 and has a beveled face 17 against which the towel is seated, a stop 18 preventing the block from tilting below a substantially horizontal position. A cylindrical member 19 is centrally pivoted in brackets 20 below the towel container and is provided with a lip or flange 21 which projects outwardly from the peripheral surface of the member. A weight 22 normally causes the member to assume the position shown in Figure 2, with the flange 21 on the underside of the member. The loose end of the towel, after passing the beveled surface 17, rests upon the peripheral surface of the member 19 which is positioned directly below the block 15 so that when a pull is exerted on the lower loose end of the towel, the member 19 will be rotated on its axis until the flange 21 is moved to a point adjacent the block 15, where it will clamp the towel between the block and the surface of the flange and the harder the user pulls on the towel, the more firmly it will be gripped and it will not be possible to withdraw any more of the clean towel from the cabinet until the loose end has been released and the weight 22 has returned the cylindrical member to its normal position. Then the user can obtain another length of towel by pulling down thereon. The amount of clean toweling delivered will depend, of course upon the distance the member 19 rotates before it clamps the clean towel and this can be governed as occasion may require and may be varied in different cabinets, if desired.

Beneath the cabinet is a suitable receptacle 23 for the soiled toweling.

The member 19 may be made of any suitable material, wood or metal, if preferred. I have shown in this instance a metal cylinder with a lip pressed out of the wall and extending lengthwise of the cylinder. This structure may, however, be modified in various ways and of course the form of the rotating member may be changed.

In Figure 4 I shave shown the drum 19 mounted to rotate in the opposite direction,

the loose end of the towel passing down in front of the drum instead of in the rear thereof, as in Figure 2. A bar 24 is provided beneath the drum, over which the loose towel passes, said bar forming a stop for the flange 21 between which and the bar the loose towel is clamped and further downward feed prevented, as indicated in Figure 5.

In Figure 6 I have shown a rail comprising a hub 25 having a weight 26 on one side and plates 27 and 28 arranged in crossed relation on the hub and projecting outwardly therefrom and having their ends in contact with the loose end of the towel. The arm 27 is of greater length than the arm 28 and holds the towel normally in the position shown in Figure 6, the weight 26 being on the underside of the hub and tending to hold the plate 27 in its raised position. When, however, the pull is applied to the loose end of the towel, the rail will be revolved on its axis, the plate 28 will pass the stop 24 without contacting therewith, but the longer plate 27 being unable to clear the stop, will contact therewith and clamp a portion of the towel between it and the stop, thereby effectually preventing further downward pull on the towel until it is released and the weight allowed to return to its normal position, thereby tilting the rail and raising the plate 27 out of its locking position. The end of the plate will slide on the towel without raising that portion of the towel which has been withdrawn from the roll and the cabinet. In other respects, the device shown in the modified construction is the same as described with reference to the previous figures.

I claim as my invention:

1. In combination with a towel holder and deliverer from which predetermined lengths of towel may be pulled without severing the same, of means operated by pulling out the towel to automatically grip and stop the delivery of the towel when the predetermined amount of towel has been pulled from the deliverer and to automatically re-set itself to repeat the operation when the towel is released, said gripping means including a stationary element and an element movable with the towel.

2. In combination, with a towel cabinet, means mounted to measure off a predetermined length of clean toweling and automatically grip the towel at the completion of said measuring movement, said gripping means returning automatically to its normal position when pull upon the towel ceases to repeat the measuring operation when the towel is again pulled.

3. In combination with a towel holder and deliverer, of a stationary part and an oscillating element operable by a pull on the towel and having a flange for automatically engaging and gripping the towel between the flange and stationary part when the oscillating element has been operated far enough to deliver a predetermined length of toweling, said oscillating element resetting itself to repeat the operation when pull on the towel ceases.

4. In combination, with a towel cabinet, means having a surface over which the towel is delivered, and means automatically actuated by the movement of the towel for delivering a predetermined length and clamping the towel on said surface at the completion of such delivery, said clamping means being mounted to reset itself to repeat the measuring operation.

5. The combination, with a towel cabinet, means having a surface over which the loose end of the towel slides, and a rotating member having a flange for gripping the towel against said surface, the loose end of the towel resting on said rotating member and pull on said end increasing the pressure of said flange on the towel.

6. In combination, with a support for a roll of toweling, a weighted rotatable member a stationary surface over which the loose end of the towel normally slides, pull on the towel rotating said rotatable member and said member having means for gripping the loose end of the towel against the stationary member and checking feed thereof.

7. The combination, with a support for a roll of toweling, a rotating member having a flange arranged to contact with the loose end of the towel and exert a clamping action thereon and limit the feed of the towel, said rotating member having means for normally holding said flange out of engagement the towel and said rotating member being actuated by contact of the towel with its peripheral surface.

8. The combination, with a support for a roll of toweling, a pivot block having a surface past which the towel slides, and a rotating member having a surface for contact with the loose end of the towel and provided with means for clamping the towel against said block when a predetermined length of the clean towel has been delivered.

9. A towel holder comprising means for holding a web of towel so that portions may be fed off by pulling on the towel in a certain direction, and means for automatically gripping the towel as it is fed in the same direction, said gripping means preventing the further feed thereof when a predetermined length of towel has been delivered until said gripping means is re-set, said gripping means including a stationary member and an oscillating member, substantially as described.

10. A towel cabinet comprising a casing, a web of clean toweling supported therein,

feed controlled devices mounted to engage with the towel web, said devices including a movable member and a member to stop the movement of the movable member, said movable member being actuated by the engagement of the towel web therewith, and being movable until a predetermined length of towel has been fed out and to abut against the stationary member to positively check the feed when such length has been delivered.

11. A towel cabinet comprising a casing, a web of clean toweling supported therein, a feed controlled device including a stationary member and an oscillatable member effective to clamp the towel against the stationary member, said member being mounted for contact with the towel web and actuated by the engagement of the towel web therewith for measuring a predetermined length of towel and positively checking the feed when such length has been delivered, said oscillatable member being mounted to return to its normal position when the pull upon the towel ceases.

12. In combination with a towel cabinet, means therein for holding a towel so it may be pulled from said means, a stationary element and swinging means which moves a distance proportional to the distance the towel is pulled, said swinging means being mounted to engage the towel between the same and the stationary element while the towel is being pulled from the cabinet and to automatically stop further delivery of the towel when a predetermined length of towel has been delivered from the cabinet.

13. In combination, a towel cabinet, means for holding the towel so that predetermined lengths may be delivered, and means arranged to automatically begin to move when the delivery movement of the towel begins and moves a distance proportional to the amount of towel delivered, and a stationary member against which the movable member abuts and is stopped, thus gripping the towel and acting to check further delivery thereof when the predetermined length of towel has been delivered.

14. A towel cabinet comprising a casing, a web of clean toweling mounted therein for intermittent delivery to a user, a feed control including a stop member, and a member movable with the towel to a position to grip the towel web between it and the stationary member, and to partially fold the towel and to stop the towel when a predetermined length of towel has been delivered.

15. A towel holder having a support for a web of clean towel, an oscillating member engaged by the towel web and actuated when a pull is applied to the towel to play off a predetermined amount of the towel and automatically stopped at the end of the predetermined delivery motion, and means having a surface against which the web of towel is pressed by said oscillatable member, the engagement of said member with said surface checking the oscillating movement of said oscillating member.

In witness whereof, I have hereunto set my hand this twentieth day of June, 1921.

ALBERT L. OVERHOLT.