R. N. SHELLEY.

TOWEL PAPER HOLDER.

APPLICATION FILED MAY 24, 1916.

1,231,797. Patented July 3, 1917.

FIG. 1.

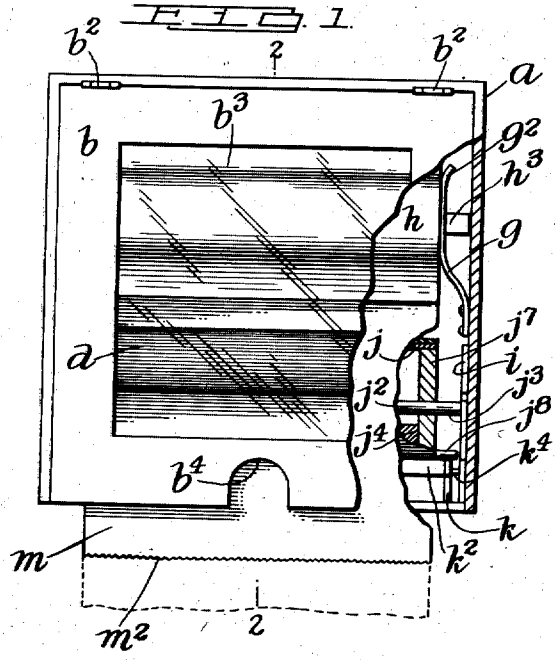


FIG. 2.

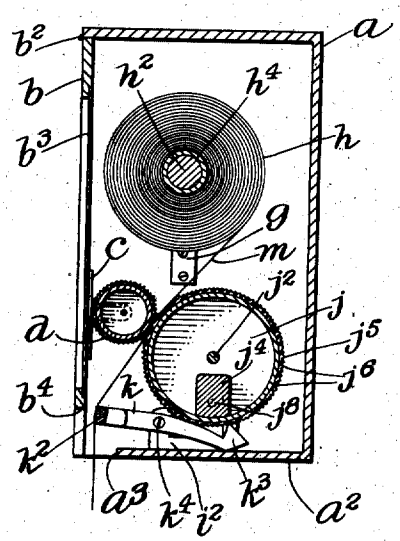


FIG. 3.

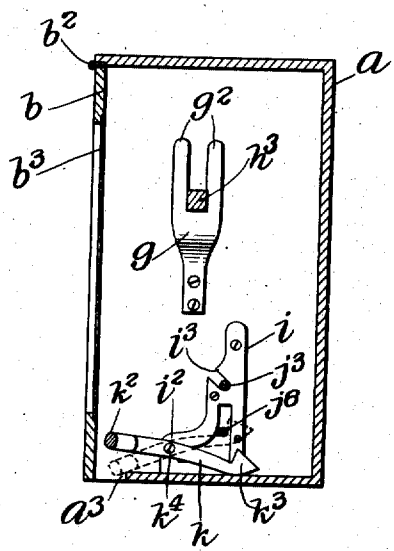
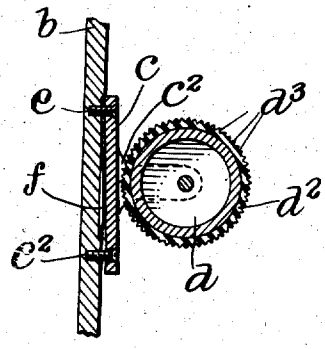


FIG. 4.



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UNITED STATES PATENT OFFICE.

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TOWEL-PAPER HOLDER.

1,231,797. Specification of Letters Patent. Patented July 3, 1917.

Application filed May 24, 1916. Serial No. 99,516.

To all whom it may concern:

Be it known that I, ROBERT N. SHELLEY, a citizen of the United States, and residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Towel-Paper Holders, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to what are known as towel paper holders or cabinets, and the object thereof is to provide an improved device of this class designed for use in hotels, restaurants, bar-rooms and other places, and which will be simple in construction and operation, and which will also be sanitary in use, and with this and other objects in view the invention consists in a device of the class specified constructed and operating as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a front view of my improved towel paper holder or cabinet with part of the construction broken away;

Fig. 2 a transverse vertical section on the line 2—2 of Fig. 1;

Fig. 3 a sectional side view with parts of the construction omitted; and,

Fig. 4 a view similar to Fig. 2 but on an enlarged scale and showing only a detail of the construction.

In the practice of my invention, I provide a box or casing a which is preferably rectangular in form and provided with a front door b which is hinged at the top as shown at b^2 and adapted to swing in a vertical plane, and said door is provided with a large central transparent panel b^3, and in the bottom edge thereof is a recess b^4. At the opposite sides of panel b^3 the door is provided with vertically arranged ear plates c having inwardly directed ears c^2 in which is mounted a roller d provided with a rubber or similar covering d^2 having longitudinal grooves and corresponding longitudinal ribs or teeth d^3.

The ear plates c are loosely connected at their top edges with the door b by a screw e and at their lower edges other screws e^2 are passed loosely through said ear plates and into the door b, and between said ear plates and the door b are placed springs f, and by means of this construction the ear plates c, or the bottom edge portions thereof, are movable toward and from the door.

My invention is not limited to the exact means herein shown for connecting the ear plates c with the door b and any suitable construction that will permit the movement of said ear plates toward and from the door may be provided.

The box or casing a, or the opposite sides thereof, are provided with spring supports or bushings g for a roll h of towel paper, and said supports are forked at their upper ends as shown at g^2, and detachably mounted therein is a rod h^2 having rectangular end trunnions h^3 which fit in the forked ends of the supports g and the roll h of towel paper is provided with a central tubular bushing h^4 of fiber or other suitable material through which the rod h^2 is passed, and with this construction the roll h of towel paper is free to rotate on said rod h^2, and the spring supports or bearings g also serve to center the roll h of towel paper in the box or casing.

Secured to the opposite sides of the box or casing a and to the bottom portion thereof, and slightly rearwardly of the supports g of the roll h of towel paper, are other supports i, which are vertically arranged and provided at their lower ends with forwardly directed members i^2, and the supports i are provided in the upper and front side edge portions thereof with downwardly and backwardly directed slots or recesses i^3, and mounted in said supports is a roller j having a central shaft j^2 provided with end trunnions j^3 adapted to be dropped into the slots or recesses i^3, and said roller in the construction shown is in the form of a drum and is provided with a longitudinally arranged weight j^4 which normally holds said roller in the position shown in Fig. 2, and said roller is also provided with a covering j^5 of rubber or similar material, and having longitudinal grooves and corresponding ribs or teeth j^6, and the ends j^7 of said roller are provided, in line with the weight j^4, with projecting stop pins j^8.

The bottom a^2 of the box or casing is provided in the front edge portion thereof with a longitudinal opening a^3 and pivoted in the bottom parts i^2 of the supports i is a yoke

frame k having a front transverse head portion k^2, and the rear ends of the sides of which are provided with heads k^3 having upwardly directed teeth adapted to engage the projecting stop pins j^8 on the ends j^7 of the roller or drum j. The pivotal supports of the yoke frame k as shown at k^4, and the front cross head portion k^2 thereof is made of wood or other like material, and the backwardly directed side arms of said yoke frame are of such length and weight as to normally hold the front cross head portion k^2 of said frame in a raised position, as indicated in Figs. 2 and 3.

The door b is provided with any suitable locking means not shown and in the use of this device the sheet m of paper from which the roll of paper h is formed, or the end portion of said sheet is passed downwardly and forwardly over the roller j and over the cross head portion k^2 of the yoke frame k, after which the door b is closed, as shown in Fig. 2, and in this operation the roller d bears on the roller or drum j, as clearly shown in Fig. 2, and the device is ready for use.

The sheet m of paper is provided at intervals with a transverse row of perforations or other breaks m^2, and whenever it is desired to use a towel the end of the sheet of paper which extends through the transverse opening a^3 in the bottom of the box or casing is grasped and pulled out to the desired extent, and in this operation the rollers d and j are both rotated and the roller or drum j rotates through a complete revolution and the front end of the frame k is depressed and the heads k^3 of the side arms thereof are thrown upwardly and engage the stop pins j^8 on the roller or drum j and this stops the rotation of said roller or drum, and at this time the end of the sheet m of paper is torn off.

The relative position of the roller j^2 with the stop pins j^8 thereon and of the yoke frame k when said parts are in their normal position as shown in Fig. 2, is such that when the sheet m of paper is pulled out the roller or drum j will first start to turn and the stop pins j^8 will turn so that they will not engage the heads k^3 of the yoke frame k at the initial movements of said parts, but as the roller or drum j continues to turn, and at the end of a complete revolution, said stop pins will engage the heads k^3 of the frame k and stop the rotation of said roller.

By supporting the roller d on the door b, as shown and described and giving said roller d a spring bearing, as shown in Fig. 4, the operation of this apparatus is facilitated, said roller d bearing on the roller g and serving to regulate the movement of the paper sheet between said rollers and also serving to prevent the backward movement of said sheet and binding thereof.

With my improvement, the sheet of towel paper is entirely inclosed at all times and will not become soiled or dirty, and said sheet is thus maintained in a sanitary condition, and while I have shown and described the preferred form and construction of my improvement or improvements, my invention is not limited to the details of construction herein shown and described, and changes therein and modifications thereof may be made, within the scope of the appended claims, without departing from the spirit of my invention or sacrificing its advantages.

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

1. In a device of the class described, a casing provided with a hinged door and an aperture, towel paper supported therein and adapted to pass through said aperture, a drum detachably and rotatably mounted in said casing, a roller resiliently and rotatably mounted in connection with the door of said casing and between which and said drum the paper is adapted to pass, a yoke-shaped frame pivotally mounted within the casing and provided with a cross head member in connection with which the paper operates and side members having at the ends thereof upwardly directed teeth, the cross head member of said frame being normally supported in a raised position, and stop devices connected with said drum whereby when the paper is withdrawn from said casing said drum is rotated and said cross head member depressed to raise the ends of the side members so that the teeth thereon will be engaged by the stop devices on said drum after a predetermined amount of said paper has been withdrawn from said casing.

2. A holder for towel paper, comprising a casing adapted to support a roll of paper and provided with an aperture to permit the passage of said paper therefrom, said casing being provided with a hinged door and said roll of paper being supported in tension devices, a drum detachably and rotatably mounted in said casing, a roller resiliently and rotatably mounted in connection with the door of said casing and between which and said drum the paper is adapted to pass, a yoke-shaped frame pivotally mounted within the casing and provided with a cross head member in connection with which the paper operates and side members having at the ends thereof upwardly directed teeth, the cross head member of said frame being normally supported in a raised position, and stop devices connected with said drum whereby when the paper is withdrawn from said casing said drum is rotated and said cross head member depressed to raise the ends of the side members so that the teeth thereof will be engaged by the stop devices

on said drum after a predetermined amount of said paper has been withdrawn from said casing.

3. In a device of the class described, a casing adapted to support a roll of paper therein, a drum rotatably mounted in said casing, stop devices connected with said drum, a roller in operative connection with said drum and between which and said drum the paper passes, and a member pivotally mounted in said casing and in connection with which the paper operates to move the same into operative relation with said stop devices to stop the rotation of said drum in the operation of withdrawing the paper from said casing.

4. In a device of the class described, a casing adapted to support a roll of paper therein, a roller mounted in said casing, a weighted drum rotatably mounted in said casing and adapted to operate in connection with said roller and between which and said roller the paper passes, stop devices connected with the ends of said drum, and a member pivotally mounted in said casing and in connection with which the paper operates to move the same into operative relation with said stop devices to stop the rotation of said drum in the operation of withdrawing the paper from said casing.

5. A holder for towel paper comprising a casing adapted to support a roll of paper and provided with an aperture to permit of the passage of said paper therefrom, a weighted drum mounted in said casing, a roller yieldably mounted in said casing and in operative connection with said drum and between which and said drum the paper passes, a stop member pivoted in said casing and provided with a cross head member in connection with which the paper operates, side members the ends of which are provided with enlarged head portions, and stop devices secured to said drum and adapted to operate in connection with the enlarged head portions of said stop member whereby when the paper is withdrawn from said casing said drum is rotated and said stop member depressed to bring the enlarged head portions thereof into operative relation with said stop devices to stop the rotation of said drum.

6. In a device of the class described, a casing adapted to support a roll of paper therein, a drum rotatably mounted in said casing, stop devices mounted on said drum, a roller mounted in said casing and in operative connection with said drum and between which and said drum the paper passes, a frame member pivotally mounted in said casing and provided at one end thereof with a part over which the paper passes, and the other end thereof with means adapted to engage the stop devices on said drum whereby the operation of withdrawing the paper from said casing will rotate said drum and move said frame member into operative relation with said stop devices on said drum to stop the rotation thereof.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 22nd day of May 1916.

ROBERT N. SHELLEY.

Witnesses:
C. E. MULREANY,
H. E. THOMPSON.