G. A. AICHER & S. LAZAR.

PAPER TOWEL CONTAINER.

APPLICATION FILED DEC. 1, 1913.

1,101,004. Patented June 23, 1914.

Fig. 1.

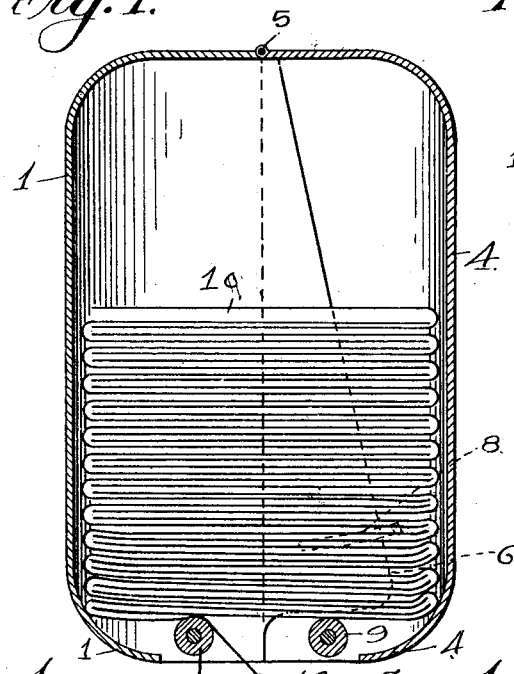


Fig. 3.

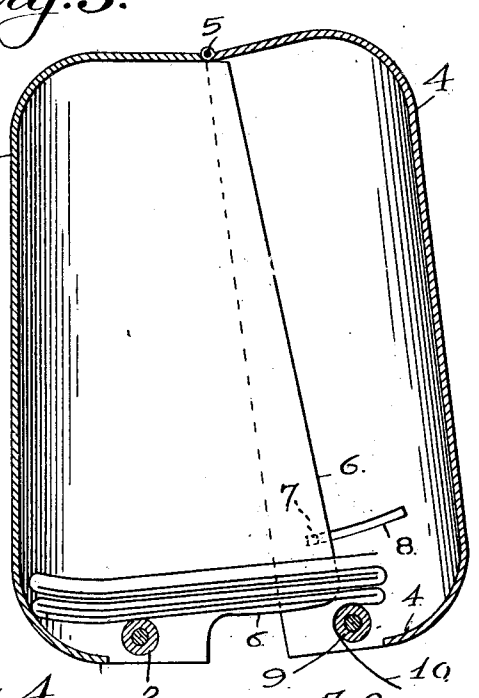


Fig. 2.

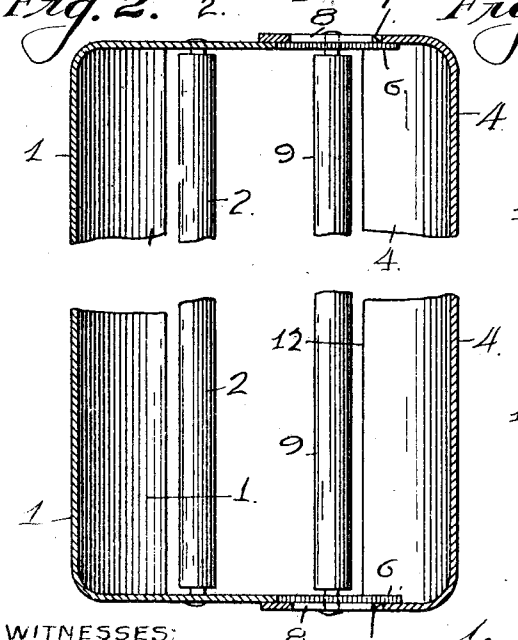


Fig. 4.

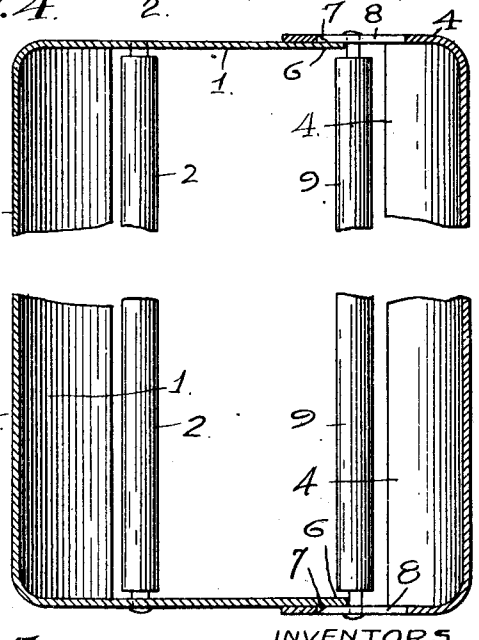
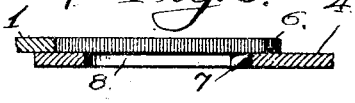


Fig. 5.



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PAPER-TOWEL CONTAINER.

1,101,004. Specification of Letters Patent. Patented June 23, 1914.

Application filed December 1, 1913. Serial No. 805,178.

To all whom it may concern:

Be it known that we, GUSTAVE A. AICHER and SOLOMON LAZAR, citizens of the United States, and residents of the city and county of San Francisco and State of California, have invented a new and useful Improvement in Paper-Towel Containers, of which the following is a specification.

Our invention relates to paper towel containers wherein the container is formed by two halves, a portion of the lower surface of each half being open and having a roller rotatably mounted within said open portion, the other half being provided with extensions which fit inside of and are engaged by the first half for the purpose of preventing the opening of the container and the removal of the contents therefrom and the objects of our invention are first, to provide a simple, inexpensive and practical container that may be easily operated; second, to provide improved means for locking the container and preventing the unlocking and opening thereof while there are any towels within the container; third, to provide improved means whereby interleaved towels within the container may be unrolled instead of being pulled therefrom; and fourth, to provide an improved construction which will facilitate the placing of the interleaved towels within the container and the edge of the lower towel between the rollers. We accomplish these several features by means of the device disclosed in the drawings forming a part of the present specification wherein like characters of reference designate similar parts throughout the said specification and drawings and in which—

Figure 1 is a vertical sectional view disclosing the rollers supporting interleaved paper towels within the container. Fig. 2 is a horizontal sectional view of Fig. 1 with the towels removed. Fig. 3 is a vertical sectional view disclosing the position of the cover half of the container, when a towel is being withdrawn from that direction, and Fig. 4 is a horizontal sectional view of the container in the position indicated in Fig. 3 but with the towels removed, disclosing the manner in which the cover is locked onto the body. Fig. 5 is an enlarged broken detailed view disclosing the beveled lug engaging the cover.

Referring to the drawings, the numeral 1 is used to designate a body portion having a lower open portion with a longitudinal roller 2 rotatably mounted therein. A cover portion 4 is hinged to the body portion 1 at 5 and embraces the side extensions 6 of the said body 1. The extensions 6 are provided with beveled lugs 7 which engage arcuate slots 8 within the cover 4. A longitudinal roller 9 is rotatably secured within the open portion of the cover 4 and lies parallel with the roller 2 when the cover is closed. Interleaved towels 10 are placed within the body 1 and are supported by the rollers 2 and 9.

In replenishing the container, the cover 4 is moved outward as far as the beveled lugs 7 will permit. By pressing the extensions 6, to which the said lugs 7 are secured, inward until the said lugs 7 are disengaged from the slots 8 within the cover 4, the said cover 4 may be released from the body 1 and opened to a sufficient extent to allow the package of interleaved towels 10 to be placed therein. It is not necessary to thread the loose end of the first interleaved towel between the rollers for the reason that the front roller 9 has been removed with the cover. Consequently, it is only necessary to allow the loose end of the first interleaved towel 10 to depend in front of the rollers 2. When the cover 4 is replaced, the roller 9 will be brought under the pile of towels and in front of the loose end of the first or lower interleaved towel. The threading of the said end between the rollers 2 and 9 is thus accomplished automatically. In closing the cover 4 upon the body 1, the forward or front edges of the sides of the said cover 4 engage the beveled sides of the lugs 7 and the said edges are forced outward and ride over the said lugs 7 until the slots 8 reach the said lugs and engage the same.

The length of the pile of towels within the box is slightly less than the distance between the extensions 6 so that while there is sufficient clearance to permit the towels to drop freely between the said extensions there is not sufficient clearance to permit the extensions 6 to be pressed sufficiently inward to allow the lugs 7 to be disengaged from the slots 8 of the cover 4 while there are towels in the body 1. It is thus evident that the cover 4 can not be released or opened while there are towels in the container.

The towels 10 being supported by the rollers 2 and 9 it is evident that should a towel be pulled in the direction shown in Fig. 1 it will have a tendency to pull the entire pile forward, inasmuch as the sup-

porting roller 2 is free to rotate, until the rear edges of the pile very nearly reaches the said roller 2, the said forward movement being regulated by the lugs 7 moving in the arcuate slots 8.

In pulling a towel from the direction shown in Fig. 3 it is evident that the towels will be supported by the rear roller 2 and the towel being withdrawn will have a tendency to move the cover 4 and roller 9 forward as illustrated until the roller 9 very nearly reaches the forward or front edge of the pile of towels within the body 1, the said forward movement being also regulated by the lugs 7 within the slots 8.

It is obvious from the foregoing that by pulling a towel from the container under either of the above described movements, the said towel will be practically unrolled from the bottom of the pile instead of being pulled. This will tend to greatly reduce the friction attendant upon the removal of a towel.

This is essential inasmuch as the hands of the operator are wet and the dampness being absorbed by the towel causes a rapid separation of the fiber and frequently the towel is torn apart instead of being pulled from the container. It is also obvious from the foregoing that we have provided improved means for threading the towels between the rollers and also provided improved means whereby the container is automatically locked when closed and can not be re-opened until all of the towels have been removed therefrom.

Having thus described our invention what we claim as new and desire to secure by Letters Patent is—

1. A paper towel container comprising a body portion; a roller rotatably mounted within the lower part of the body portion; a cover portion hinged to the body portion adapted to swing outward when a towel is being withdrawn from the said container; and a roller rotatably mounted within the lower part of the cover portion and adapted to lie parallel with the roller in the body portion.

2. A paper towel container comprising a body portion having extensions thereto; a roller rotatably mounted within the lower part of the body portion; a cover portion hinged to the body portion and adapted to engage the extensions thereof and to swing outward when a towel is being withdrawn from the container; and a roller rotatably mounted within the lower part of the cover portion and adapted to lie parallel with the roller in the body portion and to support a pile of interleaved towels therein.

3. A paper towel container comprising a body portion having extensions thereto; a roller rotatably mounted within the lower part of the body portion; a cover portion having slots therein and hinged to the body portion and adapted to swing outward when a towel is being withdrawn from the container; lugs on the extensions of the body portion and adapted to engage the slots within the cover portion for the purpose of locking the cover to the said body portion; and a roller rotatably mounted within the lower part of the cover portion and adapted to lie parallel with the roller in the body portion and to support interleaved paper towels within the said body portion.

4. A paper towel container comprising a body portion having extensions thereto and open in the lower portion thereof; a roller rotatably mounted within the open portion of the body; a cover portion having arcuate slots therein and a lower open portion and hinged to the body portion; beveled lugs secured to each extension and adapted to engage the arcuate slots within the cover portion for the purpose of locking the cover to the body portion; and a roller rotatably mounted within the open portion of the cover and adapted to lie parallel with the roller in the body portion and to support a pile of interleaved paper towels within the said body portion.

5. A paper towel container comprising a body portion having extensions thereto and an open lower portion; a roller rotatably mounted within the open portion of the body; a cover portion having arcuate slots and a lower open portion therein and hinged to the body portion; beveled lugs secured to the extensions of the body portion and adapted to engage the slots within the cover portion and to be retained therein by the said extensions while there are paper towels within the said body portion; and a roller rotatably mounted within the open portion of the cover and adapted to lie parallel with the roller within the body, both rollers being adapted to support paper towels within the container.

In witness whereof we have hereunto set our signatures in the presence of two subscribing witnesses.

GUSTAVE A. AICHER.
SOLOMON LAZAR.

Witnesses:
R. WILLIS SANDFORD.
H. W. DOSCHER.