Dec. 7, 1965 M. E. HORN 3,221,928

TISSUE DISPENSER AND DISPOSAL

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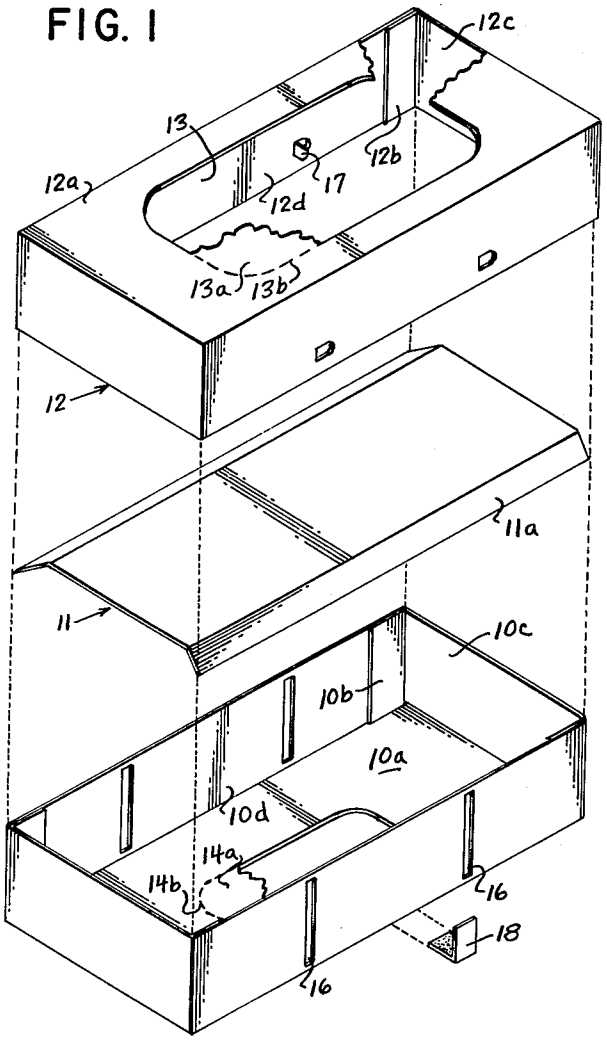
FIG. 1



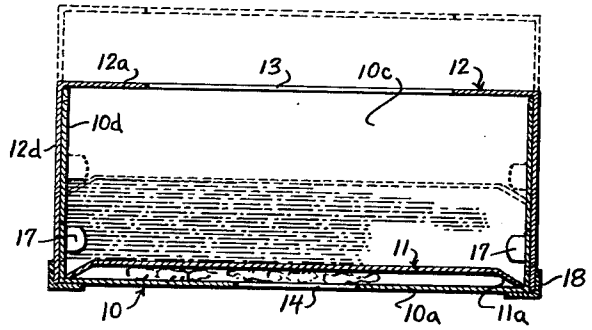


FIG. 2

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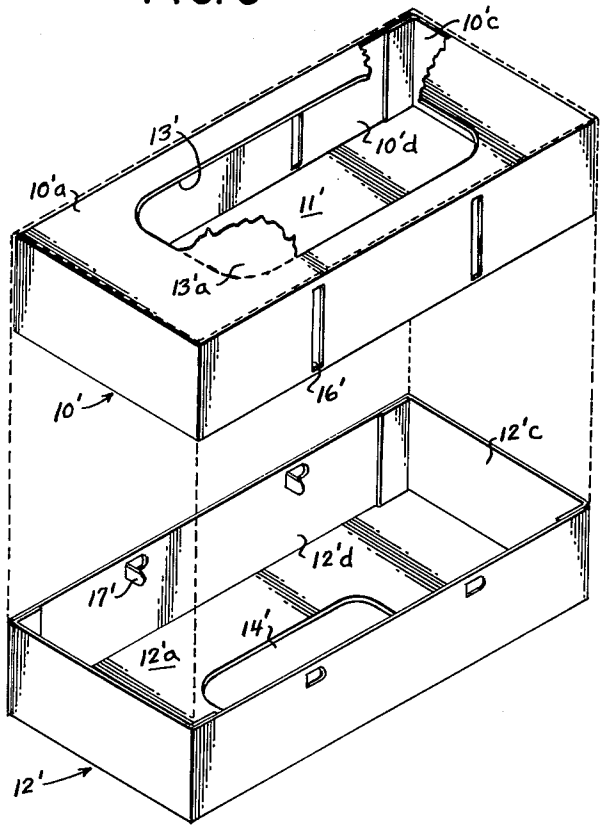
FIG. 3



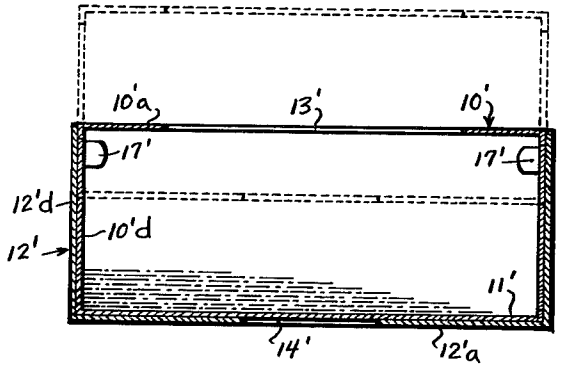


FIG. 4

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TISSUE DISPENSER AND DISPOSAL

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5 Claims. (Cl. 221—34)

The present invention relates to an improved dispenser for facial tissue making provision for convenient disposal of waste tissues as well as storage for fresh tissues.

Important objects of the invention are to provide a combination dispenser and disposal unit for facial tissues which is adapted to be inexpensively fabricated as from paper board, which is easy to use both with respect to its dispensing office and its provision for storage of the waste tissues, and which is so compact before use as to consume substantially no more space than a conventional facial tissue dispenser devoid of provision for disposal of waste tissues.

Other more particular objects and advantages will, with the foregoing, appear and be understood in the course of the following description and claims, the invention consisting in the novel construction and in the adaptation and combination of parts hereinafter described and claimed.

In the acompanying drawings:

FIG. 1 is an exploded perspective view of the parts of a first embodiment of the invention.

FIG. 2 is a transverse vertical sectional view through the center of the first embodiment when assembled.

FIG. 3 is an exploded perspective view of the parts of a second embodiment of the invention; and

FIG. 4 is a transverse vertical sectional view through the center of the second embodiment after partial use and disposal of the tissues.

Referring to the first embodiment of my invention illustrated in FIGS. 1, 2 it is seen that the dispenser comprises a rectangular box **10**, with a false bottom **11** and an overfitting vertical-slide cover **12**. It will be seen that the function of the false bottom is to divide the box into an upper dispensing chamber for holding fresh tissues and a lower disposal chamber for storing waste tissues. Fresh tissue is withdrawn from the dispensing chamber through a discharge opening **13** in the upper wall **12***a* of the cover while access to the disposal chamber is obtained through a waste opening **14** in the true bottom wall **10***a* of the box.

The corners of the box are made in any suitable manner, such for example as by using corner tabs **10***b* bent at right angles to the end walls **10***c* of the box and bonded to the overlapping portions of the side walls **10***d*. In like manner the cover **12** may have corner tabs **12***b* extending from end walls **12***c* and secured to side walls **12***d*. Preferably, the cover and box have the same height.

In accordance with the present invention, opposite walls of the box have horizontally spaced vertical slots extending the major part of the box height. A pair of slots **16—16** is shown in each of the side walls **10***d* for purposes of example. Projecting inwardly through these slots are respective locking tongues **17** struck from the side walls **12***d* of the cover near the bottom edge thereof and hinged on vertical fold lines. These tongues **17** are preferably longer, horizontally speaking, than the width of the slots **14** so that the tongues cannot be accidently released from the slots unless the respective side wall of the cover is forcibly warped outward relative to the underlying side wall of the box.

It will be noted that widthwise the false bottom **11** is purposely slightly oversize relative to the box width and that the excess is utilized in longitudinal side flanges **11***a* which are bent downwardly to form obtuse dihedral angles with the rest of the false bottom. These flanges **11***a*

spring outwardly against the side walls **10***d* of the box to make a snug slide fit therewith and seal the disposal chamber from the dispensing chamber.

As is common with dispensing openings in the paper board art, the discharge and stuffing openings **13–14** may be closed before initial use by punchouts **13***a*–**14***a* defined by perforated tear lines **13***b*–**14***b*. The discharge opening may be relatively wide as shown if the tissues are to be independently stacked (i.e. no interfit between tissues), or can be narrow as is well known if the tissues are packed with an interfit such that the withdrawal of each tissue partially withdraws the next.

During the box loading operation the tissues are firmly compressed against the false bottom **11** which is forced against the true bottom **10***a*. This compressed condition is maintained during storage by holding the cover completely down as with adhesive strips **18** securing the side walls **12***d* to the bottom of the box. At this time the tongues **15** are at the bottom of the slots **14**.

When the dispenser is first put into use the punchouts **13***a* and **14***a* are manually detached and discarded, and the strips **18** are severed. The compressed tissues expand upon release of the cover by severance of the strips **18** and cause the cover **12** to raise relative to the box **10**. During this action the tongues **17** responsively ride upwardly in the slots. When the user wishes to dispose of a tissue after use thereof, he then need only stuff it through the waste opening **14** in the bottom of the box. As the waste tissue is accumulated in the waste chamber beneath the false bottom **11** the latter is gradually pushed up accordingly. At all times the tongues **17**, by engagement with the side walls of the box at the upper ends of the slots **16**, prevent the cover **12** from being pushed or otherwise separated from the box.

In the second embodiment of my invention the aforedescribed unit is turned upside down, the discharge and waste openings are correspondingly reversed, and the false bottom is made an integral closure for the box. Thus, the modified box, denoted **10'**, is integrally enclosed both top **10'***a* and bottom **11'** as well as on the sides **10'***d* and ends **10'***c*, and is free to vertically slide within a bottom cover **12'**, the amount of vertical relative movement being controlled as before by action of inwardly struck tongues **17'** working in slots **16'**. The sides, ends, and bottom of the modified cover **12'** are designated **12'***d*, **12'***c*, and **12'***a*, respectively, and the discharge and waste openings are denoted **13'** and **14'**.

With this modified arrangement the box **10'** comes to the user completely vested in the bottom cover **12'** and with a punchout section **13'***a* for making the discharge opening **13'**. The user dispenses tissues from the box and may stuff the waste tissues through the bottom waste opening **14'** as before. These waste tissues occupy the chamber defined by the bottom wall **11'** of the box together with the bottom **12'***d* of the bottom cover **12'** and the portions of the latter's end and side walls **12'***c* and **12'***d* lying below the level of the bottom wall **11'**. The height, and hence the size of this waste chamber is increased as needed by upward movement of the box **10'** relative to the bottom cover **12'**. During this upward movement the tongues **17'** ride in the slots **16'** and prevent the box and bottom cover from being accidently separated from one another. However, if it is desired to empty the waste chamber before all of the fresh tissues are consumed, the user may outwardly warp the side walls **12'***d* of the bottom cover sufficiently to remove the tongues **17'** from the slots **16'** whereupon the box is free to be lifted completely out of the bottom cover. After emptying the bottom cover of the waste tissues the unit can then be easily reassembled.

It is thought that the invention will have been clearly understood from the foregoing detailed description.

Changes in the details of construction will suggest themselves and may be resorted to without departing from the spirit of the invention, wherefore it is my invention that no limitations be emplied and that the hereto annexed claims be given a scope fully commensurate with the broadest interpretation to which the employed language admits.

What I claim is:

1. In combination, a box with a horizontal wall joined to upright walls, a cover having a horizontal wall spaced vertically relative to said horizontal wall of the box and having upright walls overlapping said upright walls of the box, discharge and waste openings, one in one of said horizontal walls and the other in the other of said horizontal walls, closed-end vertical slots in said upright walls of the box, and tongues struck inwardly from said upright walls of the cover and extending through respective of said slots, said box and cover being movable vertically relative to one another through the range of travel of said tongues in said slots.

2. The combination of claim 1 in which said tongues are hinged about vertical fold lines and have a horizontal length exceeding the width of said slots.

3. In combination, a box with a rectangular horizontal wall joined to a pair of rectangular end walls and a pair of rectangular side walls, a cover having a rectangular horizontal wall spaced vertically from said horizontal wall of said box and having respective pairs of side and end walls overlapping said side and end walls of the box, discharge and waste openings, one in one of said horizontal walls and the other in the other of said horizontal walls, a pair of horizontally spaced vertical closed-end slots in each of said side walls of the box, and a pair of tongues struck inwardly from each said side wall of the cover and extending through said pair of slots in the respective side wall of the box, said box and cover being movable vertically relative to one another through the range of travel of said tongues in said slots.

4. In combination, a box with a horizontal bottom wall joined to upright walls, a cover having a horizontal top wall spaced vertically relative to said horizontal wall of the box and having upright walls overlapping said upright walls of the box, a discharge opening in said top wall and a waste opening in said bottom wall, a vertically movable false bottom in said box above said bottom wall defining with the latter a waste chamber, closed-end vertical slots in said upright walls of the box, and tongues struck inwardly from said upright walls of the cover and extending through respective of said slots, said box and cover being movable vertically relative to one another through the range of travel of said tongues in said slots.

5. In combination, a box with horizontal top and bottom walls joined to upright walls, a bottom cover having a bottom wall beneath said bottom wall of the box and having upright walls overlapping said upright walls, a discharge opening in said top wall, a waste opening in said bottom wall of the cover, closed-end vertical slots in said upright walls of the box, and tongues struck inwardly from said upright walls of the cover and extending through respective of said slots, said box and cover being movable vertically relative to one another through the range of travel of said tongues in said slots.

References Cited by the Examiner

UNITED STATES PATENTS

1,904,777	4/1933	Brzezicki	221—34
2,841,275	7/1958	Schwimmer.	
3,105,592	10/1963	Cohen	221—65

FOREIGN PATENTS

464,373	4/1933	Great Britain.

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