Feb. 17, 1942. F. G. STEINER 2,273,668

PACKAGE WITH MOUNT, AND COMBINATION THEREOF WITH A DISPENSING CABINET

Filed May 13, 1940 2 Sheets-Sheet 1

Fig. 1.

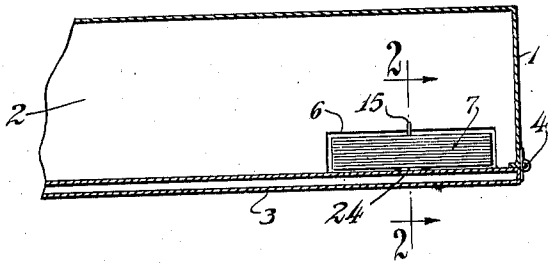


Fig. 2.

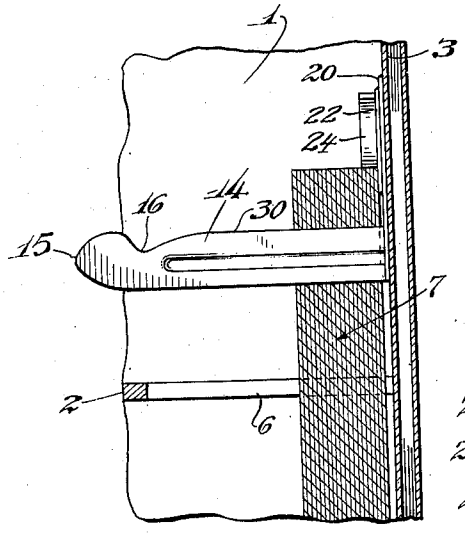


Fig. 3.

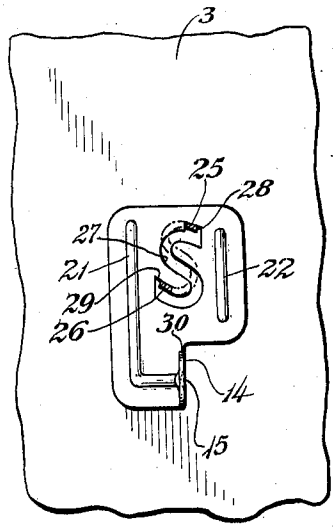


Fig. 4.

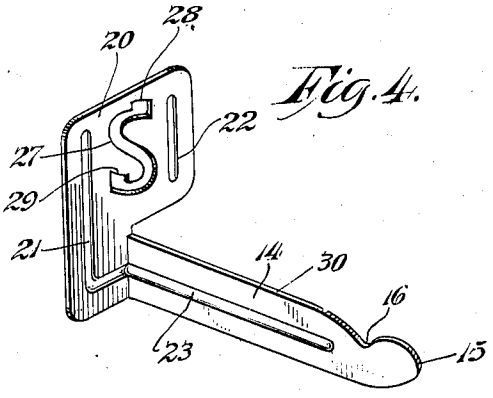
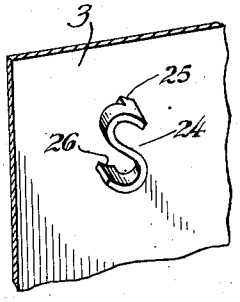


Fig. 5.



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Fig. 6.

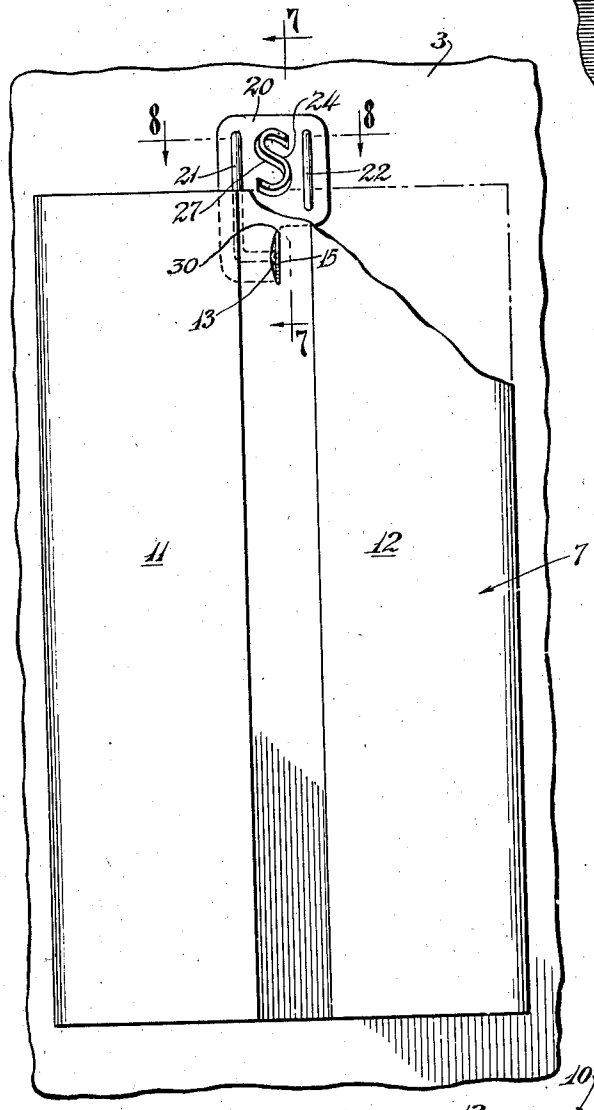
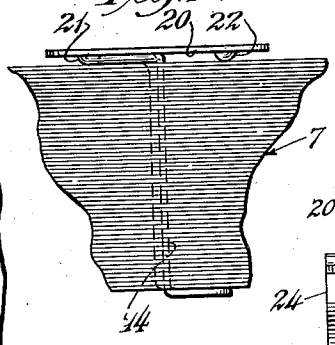


Fig. 10.



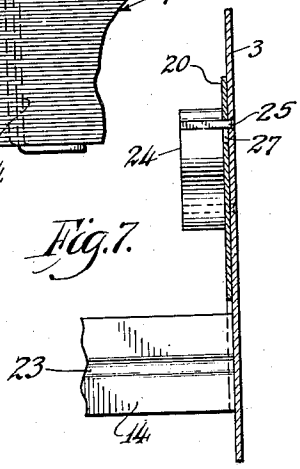
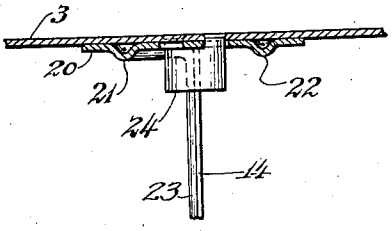


Fig. 7.

Fig. 8.



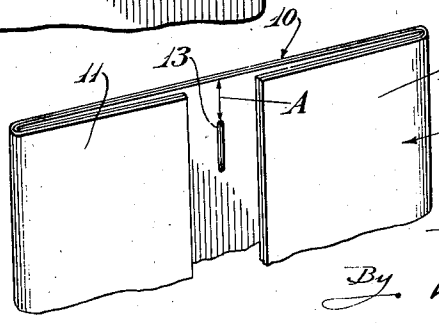


Fig. 9.

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Patented Feb. 17, 1942

2,273,668

UNITED STATES PATENT OFFICE

2,273,668

PACKAGE WITH MOUNT, AND COMBINATION THEREOF WITH A DISPENSING CABINET

Frank G. Steiner, Miami Beach, Fla., assignor to Steiner Sales Company, Salt Lake City, Utah, a corporation of Utah

Application May 13, 1940, Serial No. 334,849

6 Claims. (Cl. 248—223)

This invention relates to a package equipped with means for clamping it during shipment, which means also acts as a hanger by which the package is connected to a support, and further relates to a specific placement of a package in relation to the door of a dispenser cabinet. An object is to provide simple, inexpensive means which can be easily serviced or attached to the cabinet.

The invention finds particularly valuable application in the hanging of a package or pad of sheets on the door of a cabinet, for example, on the door of a towel dispensing cabinet, in which there is provided a shelf for cosmetics and in which a pad of paper of a quality such as Kleenex is also provided.

Preferably, facial tissue is used, such as Kleenex, arranged in pad form on the inside of a door of a cabinet. To conserve space it is desirable to use pads because a roll of 200 lengths of Kleenex paper is about four inches in diameter, while a pad of 200 lengths is only about one-half inch thick. The paper is herein hung at a point on the door which is opposed to a compartment which acts as a storage for bottles or cosmetics, which storage space is limited in depth. This storage space may be arranged above a towel dispensing mechanism which has not herein been shown. As shown herein, a single door closes the entire cabinet.

It is desirable to ship the paper in package form with the means by which the paper will be attached also attached to the package of paper, so that all that is thereafter necessary is to attach the hanger to means provided on a support or door.

In making dispensing cabinets and providing them with cosmetic facilities, including facial tissue, it is desirable to have the cabinet as compact as possible. To this end, the shelf is cut out or notched or recessed to receive the pad of paper which is carried by the door, when the door is closed, and it is a particular object herein to so mount the pad that it will not swing laterally and will therefore enter the recess.

The notch has been arranged near the hinging side of the door, and this is a feature. With the pad arranged near the hinging point the centrifugal effect of opening and closing the door is not so great as if the pad were placed at the middle of the door or at the non-hinged side thereof. Thus, by this device alone the tendency of the pad to swing is substantially prevented.

Objects, features and advantages of the invention will appear in the description of the drawings forming a part of this specification, and in said drawings:

Figure 1 is a plan section taken above the shelf of a cabinet, showing the invention applied thereto;

Figure 2 is a vertical section through the cabinet on line 2—2 of Figure 1;

Figure 3 is a view of the inner face of the door showing how the bracket is attached, that part of the attaching means which is on the door being shown in section;

Figure 4 is a perspective view of the bracket removed from the package;

Figure 5 is a perspective view further illustrating that part of the bracket-attaching means which is on the door;

Figure 6 is a face view of the inner side of the door showing the package attached thereto, but partly broken away to show the bracket;

Figure 7 is a detailed vertical section through the bracket and support taken on line 7—7 of Figure 6;

Figure 8 is a horizontal section through the bracket and support taken on line 8—8 of Figure 6;

Figure 9 is a perspective view of one of the units or sheets of paper; and

Figure 10 is a plan view, showing the improved package with blade and back plate of the bracket acting to hold the sheets in package or pad formation, for shipment.

The numeral 1 generally indicates a cabinet, preferably a dispensing cabinet, which is provided with a shelf 2 disposed above a dispensing mechanism (not shown). A door 3 is hinged as at 4. The shelf is provided with a recess indicated at 6 which is adapted to receive a package of sheets 7.

This cabinet, although shown only in a fragmentary manner, may represent a dispensing cabinet provided with a shelf which may support cosmetic materials, and the package of paper 7 may be of the facial tissue type. This cabinet may have a towel dispensing device arranged below the shelf, either for dispensing absorbent paper for use in drying the hands, or for dispensing fabric or laundered toweling. The door 3 acts as a door for closing all compartments of the cabinet.

It is a particular object of this invention to provide a package like that generally indicated by the numeral 7, which package includes or has attached thereto, when shipped, a hanger or means by which the paper can be secured to a support or, in this embodiment, to a door. It

is a particular object to provide attaching means which will substantially prevent swinging movements of the paper package or pad in a direction parallel with the face of the support, of such a degree as would interfere with the registration with and entry of the pad into the recess 6 of the shelf, as the door is closed. It will be understood that when the door is closed there is a tendency for the package to swing, due to centrifugal action, but the present devices overcome that tendency.

A feature of the invention is the placement of the pad 7 adjacent the hinging point 4 of the door so that it will register with and enter the recess 6, likewise so placed.

Referring now to Figures 3, 4, 6 and 9, and to the construction of the package per se, the numeral 10 generally indicates a unit of paper comprising two sheets or thicknesses of paper, with the paper (see Figure 9) folded inwardly from one or both sides as at 11 and/or 12. The package, of course, is made up of a plurality of these sheets or units 10, and each unit has a vertical slit 13 through which the blade or hanger element 14 passes in a manner to pendently support the sheet. This hanger element has a pointed head 15, and just rearwardly of the head is a shoulder 16 adapted to resist accidental disconnection of the sheets by motion in a direction lengthwise of the hanger blade. The folded-over portion 11 or the folded-over portions 11 and 12 are arranged as shown in Figure 6 to face the user so that all that is necessary in order to remove the sheet is to slip the fingers beneath the flap 11 and pull downwardly so that the knife will tear the sheet along the dotted line A indicated at Figure 9.

An important feature of the invention is the vertical arrangement of the blade, the snug fit of the paper about it, and the connection of the bracket or hanger, so that no substantial lateral swinging movement of the paper will occur, due to centrifugal action incident on opening or closing of the door, but particularly on closing of the same. The anti-swinging function is also accomplished herein by placing the pad near the hinging point of the door. Referring to Figure 4, the bracket includes the hanger plate 20 suitably reenforced as at 21, 22 by punched-out portions, the portion 21 merging into the portion 23 of blade 14 to stiffen the blade. See also Figures 2 and 3. Although in the drawings the opening the paper has been somewhat exaggerated, it will be understood that there is a snug fit between the paper and the blade.

A feature of the invention is the specific construction of the hanger, as well as the broader ideas of means and conception used to attach it. A feature is to make a package and a means of connecting it, such that connection can only be made to some specific means. The object is to prevent the use of any package except one which has a specific type of hanger. In this instance, the hanger prevents or sufficiently controls the swinging motion of the pad in a direction parallel with the face of the support to which it is attached. It is also desirable to have the connecting means assume the form of a letter or of a symbol indicative, in a trade-mark sense, of the source of the goods, at the same time using this letter mechanically in stencil form to fit over a correspondingly shaped letter or symbol on a support or door so that a package provided with such a hanger can only be attached to a door which has a correspondingly shaped member. In this instance, a mechanical application of the letter S has been made a means by which the hanger is connected to the door.

Referring to Figure 5, it will be seen that the S-shaped member or projection is attached to the door by elements 25, 26 which, it is to be noted, extend from the terminals of the S-shaped element 24. These elements are riveted to the door. Referring now to Figure 4, the plate 20 is provided with an S-shaped slot 27, the terminals of which are provided with offsets or recesses 28, 29 which correspond to and cooperate respectively with the connections 25 and 26 of the projection 24, to rigidly lock and secure the hanger. Figure 2 illustrates the locking relation of the parts 25, 28 and 26, 29, and it will be seen that the bracket or hanger when connected as shown in Figure 2 is not capable of any accidental movement in a plane parallel with the face of the door 3. For the sake of clarity, some clearance has been shown in the drawings between the parts 25, 28 and 26, 29, but in practice a snug fit is provided. Although the projection has been shown on the support and the slot on the hanger, and although this specific arrangement is claimed, the invention is not entirely limited in that regard, nor avoided by having the support slotted and the projection placed on the bracket. It is advantageous to form the slot when stamping out the single-piece hanger, and this is a feature.

It will be further noted that the bracket is connected to the projection 24, first by a movement toward the door to register the S-shaped figures and after registration and further movement toward the door, the bracket is moved downwardly whereby engagement of the notches 28 and 29 with the fastening devices 25 and 26 is accomplished. In this movement the plate 20 passes behind the projection and is anchored against outward motion. It will be further noted that when the bracket is attached the knife blade 14 is vertically arranged and that its top edge 30 acts as a cutter for severing along the line A of Figure 9.

As shown in Figure 10, the outer end or head 15 is bent against the face of the package and this bent portion 15 and the plate 20 form means for clampingly holding the sheets for shipment. As soon as the hanger has been placed as in Figure 6, or before that placement, the head or end of the hanger is straightened to assume the position shown in the other figures, and the device is ready for use. In use the notch or shoulder 16 prevents accidental disconnection of the paper by a movement lengthwise of the blade hanger. The sheets are removed by inserting the fingers under one of the folds 11 or 12 and grasping and pulling downwardly. By providing these folds and providing something at the face of the sheet which is convenient to grasp, there is less likelihood that users will grasp more than one unit 10, and thus economy results.

I believe myself the first to provide a package as an article of manufacture which has a hanger attached thereto when sold, and wherein the hanger has means adapted to be connected to a complementary means on a support and merely by two motions perpendicular to one another.

An important object of this invention in all its phases is to provide a mounting for a package or pad of sheets which can be connected to a support such as a hinged door in such a manner that the package will not swing in a sub-

stantial degree in a plane parallel with the flat surface of the door, particularly, as the door is being closed. This non-swinging condition is separately accomplished herein in two ways, to-wit: by providing a proper hanger construction, and by attaching the package adjacent the hinged side of a door which swings about a vertically disposed axis. It will be understood that proper hanger construction and placement on the hinging side may be simultaneously combined to assure a non-swinging mount for the package, and furthermore, that these means may be employed together or separately for so placing a package that it will unfailingly enter a recess in a shelf of a cabinet which is closed by the door on which the package is mounted.

By providing a combination hanger and means for holding a stack or pad of sheets for shipment, and by making the hanger means so that when connected the pad will not swing in the manner above mentioned, a number of purposes are served. For example, the hanger structure acts to clamp the paper during shipment, it acts to support the pad after shipment, and so acts by a very simple connection. Moreover, the character of the support is such as to force the removal of the sheets by severing by a pull, and the hanger prevents accidental disengagement of the sheets by motion in a direction lengthwise of the combined support and tear-off blade. The blade itself is held in an upright position and the relation of the slits in the paper to the wide faces of the blades substantially prevents swinging or lateral movement of the paper thereon, and by means of the bracket connection to the support, the bracket itself, as well as its blade, is prevented from swinging.

I also believe it new to use portions of fastening devices which hold a projection to a support, as means cooperating with a bracket to secure the bracket against motion in a direction parallel with a support.

I claim as my invention:

1. In combination with a support, a projection spaced outwardly from the support, said projection having extensions attached to the support and acting to secure the projection and to hold it spaced outwardly, a hanger bracket having a slot of the same configuration as and adapted to fit over said projection, said slot having recesses which cooperate with said securing extensions to hold the bracket against rotation and against motion in a direction parallel with the support.

2. In combination, a support having thereon a projection spaced outwardly therefrom and having the shape of a letter of the alphabet, plural means securing said projection to the support only at two points, and a plate having a slot of the same configuration as the projection and adapted to pass over the projection and having recesses, one cooperable with each of the said securing means, said projection being spaced outwardly from the support a distance slightly greater than the thickness of the plate, and its recesses and securing means being so proportioned that after the slot is registered with the projection and the plate is moved toward the support the plate can be moved downwardly behind the projection and when so moved bring said recesses into such relation with said fastening means that the plate is held by gravity against rotation and against movement in a direction parallel with the face of the support.

3. In combination, a support, an S-shaped projection spaced outwardly from the support, means securing said projection to the support and applied at two points which correspond to the terminal portions of the projection, a plate having an S-shaped slot adapted to register with and be received by said S-shaped projection, said slot having terminally placed shouldered recesses so proportioned that after the slot is registered with the projection and the plate is moved toward the support and then moved downwardly behind the projection the recesses assume such a relation with said terminal fastening devices of the projection that the plate is immovably secured, but capable of release by simply raising the same and then moving the plate away from the support.

4. In combination with a support, a sheet metal projection of irregular configuration spaced from the support, means extending from the projection and attaching it to the support in spaced relation, a plate having a slot of substantially the same irregular configuration as and adapted to be registered with and received by the projection, said plate being of a thickness less than the spacing between the projection and the support, and said slot having recesses which are received by the attaching means for said projection and which act after engagement to prevent lateral or rotative movements of said plate in a direction parallel with the face of the support, the parts being so adapted that connection for the above purpose can only be made after registration of the irregular slot with the irregular projection, then movement of the plate towards the support and then a downward movement of the plate to bring a part of the plate behind said projection.

5. In combination with a support, a sheet metal projection spaced from the support, means extending from the projection and attaching it to the support in spaced relation, a plate having a slot of substantially the same configuration as and adapted to be registered with the projection, said plate being of a thickness less than the spacing between the projection and the support, and said slot having recesses which are received by the securing means for said projection and which act thereafter to prevent lateral or rotative movements of said plate in a direction parallel with the face of the support.

6. A support having thereon an S-shaped projection, said projection having at the terminals of the S extensions connecting the projection to the support and spacing the remainder of the S outwardly from the support, a bracket having therein an S-shaped opening which fits over the S-shaped projection, the terminals of the S-shaped opening having upward extensions which interlock with the terminal extensions of the projection, the arrangement of the projections, extensions and opening being such that the bracket can be engaged over the S-shaped projection by a movement in a direction perpendicular to the face of the support and then moved downwardly to cause the upwardly extending slots of the bracket to lockingly engage with the extensions, whereby to be thereafter held by gravity action against rotative movement in direction of the long axis of the extension.

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